503361317 06/23/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3407939

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KEVIN C. EDWARDS	11/25/2014
MICHAEL J. BENNETT	02/10/2015
JOHN P. FLYNN	11/25/2014
MATTHIAS REIF	06/22/2015
PHILLIP A. RYAN	12/01/2014
ALLEN C. PALMER	04/06/2015
CHEE K. TEO	03/04/2015
MING J. CHENG	11/26/2014

RECEIVING PARTY DATA

Name:	GYRUS ACMI, INC., D.B.A. OLYMPUS SURGICAL TECHNOLOGIES AMERICA
Street Address:	1369 TURNPIKE ROAD
City:	SOUTHBOROUGH
State/Country:	MASSACHUSETTS
Postal Code:	01772

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14487199

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.

Email: donna.dickson@olympus-osta.com

Correspondent Name: DONNA DICKSON

Address Line 1: GYRUS ACMI, INC. D.B.A. OSTA

Address Line 2: 136 TURNPIKE ROAD

Address Line 4: SOUTHBOROUGH, MASSACHUSETTS 01772

NAME OF SUBMITTER:	DONNA DICKSON
SIGNATURE:	/Donna Dickson/
DATE SIGNED:	06/23/2015

PATENT 503361317 REEL: 035960 FRAME: 0940

This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 8

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source=Combined-Decl-Asg_Ryan#page1.tif

As a below named inventor, I hereby declare that:

TYPE OF DECLARATION: This declaration is for an original application.

INVENTORSHIP IDENTIFICATION: My residence, post office address and citizenship are as stated below, next to my name. I believe that I am an original inventor, or an original joint inventor of the subject matter that is claimed, and for which a patent is sought on the invention entitled: SURGICAL INSTRUMENT

SPECIFICATION IDENTIFICATION: The attached application; or ST The United States Application Number 14/497400. First are

SPECIFICATION IDENTIFICATION: ☐ The attached application; or ☒ The United States Application Number 14/487199 filed on September 16, 2014 and PCT International Application Number PCT/US filed on

ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR: I hereby state that the filing of the above-referenced application was made or authorized to be made by me. I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims. I acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, § 1.56.

DECLARATION: I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

ASSIGNMENT OF INVENTION: In consideration of the payment by ASSIGNEE to ASSIGNORS of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR: Michael J. Bennett 6685 Cedarshade Cove Bartlett, TN 38135 hereby sell, assign and transfer to

ASSIGNEE: GYRUS ACMI, INC.

d/b/a Olympus Surgical Technologies America

136 Turnpike Road Southborough, MA 01772 State or Country of Formation: US

Nationality: US

a and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and any foreign countries, including all rights to claim priority, in and to any and all improvements which are disclosed in the above-referenced applications: US Application Number 14/487199 filed on September 16, 2014 and PCT International Application Number filed on _______, including the right to claim priority in the United States or in any foreign countries, (the entire right, title and interest in each such application are also hereby sold, assigned and transferred to Assignee to the extent not already done so); and, in and to, all Letters Patent to be obtained for said invention by the above-referenced application or any continuation, continuation-in-part, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof, including any and all rights to sue for past damages. ASSIGNOR hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment. ASSIGNOR further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding

affidavits requir	be known and accessible to ASSIGNOR and and will promptly execute and deliver to ASS ed to apply for, obtain, maintain, issue and enfo eccessary or desirable to carry out the purposes	SIGNEE or its legal representativer rce said United States application	es any and all papers, instruments or
Inventor's Signature	Midal Junes	Residence:	Bartlett, TN 38135
Date:	FEB 10 2015	Post Office Address:	6685 Cedarshade Cove

Citizenship: US

SUBSCRIBING WITNESS AFFIDAVIT OF EXECUTION OF AN ASSIGNMENT

1, Bavio e c nonce	\			
Whose full post office address is:			millingtonita	38053
	Street	, City, Postal Code, Country		

Make oath and say that I was personally present and did see Milled IPersolf who is personally known or identified to me to be the inventor named in the attached assignment, duly sign and execute the same for the purposes therein stated.

Signed at: Bartet, TN

On this 10th day of Feb ,2014-2015

OauChuel
Subscribing Witness

As a below named inventor, I hereby declare that:

TYPE OF DECLARATION: This declaration is for an original application.

INVENTORSHIP IDENTIFICATION: My residence, post office address that I am an original inventor, or an original joint inventor of the subjectivention entitled: SURGICAL INSTRUMENT SPECIFICATION IDENTIFICATION: ☐ The attached application; or If September 16, 2014 and PCT International Application Number PCT/ITACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF application was made or authorized to be made by me. I hereby state identified specification, including the claims. I acknowledge the duty to in 37, Code of Federal Regulations, § 1.56. DECLARATION: I hereby declare that all statements made herein of information and belief are believed to be true; and further that the statements and the like so made are punishable by fine or imprisonm Code, and that such willful false statements may jeopardize the validity.	In the United States Application of the United States of	and for which a patent is sought on the ication Number 14/487199 filed on that the filing of the above-referenced understand the contents of the above-ch is material to patentability as defined true and that all statements made on the with the knowledge that willful false on 1001 of Title 18 of the United States
ASSIGNMENT OF INVENTION: In consideration of the payment by A receipt of which is hereby acknowledged, and for other good and valua ASSIGNOR: hereby sell, assign and transfer to Ming J. Cheng 100 Pawtuxet Terrace 11 W. Warwick, RI 02893 Nationality: Chinese	Able consideration, ASSIGNEE: GYRUS ACMI, INC. d/b/a Olympus Surg 136 Turnpike Road Southborough, MA State or Country of F	gical Technologies America 01772 Formation: US
a and the successors, assigns and legal representatives of the ASSIG any foreign countries, including all rights to claim priority, in and to referenced applications: US Application Number 14/487199 filed on filed on including the right to centire right, title and interest in each such application are also herebalready done so); and, in and to, all Letters Patent to be obtained continuation, continuation-in-part, division, renewal, or substitute there including any and all rights to sue for past damages. ASSIGNO encumbrance has been or will be made or entered into which would ASSIGNEE will, upon its request, be provided promptly with all pertined Patent as may be known and accessible to ASSIGNOR and will test related thereto and will promptly execute and deliver to ASSIGNEE affidavits required to apply for, obtain, maintain, issue and enforce said which may be necessary or desirable to carry out the purposes thereof.	any and all improvemer September 16, 2014 and claim priority in the United by sold, assigned and train for said invention by the of, and as to letters patent R hereby covenant that conflict with this assignment facts and documents relating tify as to the same in an or its legal representative United States application	nts which are disclosed in the above- PCT International Application Number States or in any foreign countries, (the insferred to Assignee to the extent not a above-referenced application or any tany reissue or re-examination thereof, no assignment, sale, agreement or nent. ASSIGNOR further covenant that lating to said invention and said Letters y interference, litigation or proceeding es any and all papers, instruments or
nventor's M. Cheng	Residence:	W. Warwick, RI 02893
Date: 11/26 /2014	Post Office Address:	100 Pawtuxet Terrace 11
Citizenship: US		
SUBSCRIBING WITNESS AFFIDAVIT OF 1. JOSEPH F. SCAMARDO JE	EXECUTION OF AN ASS	SIGNMENT
Vhose full post office address is: <u>204'7 SOMM/IUG DE, C</u> Street, City, Postal Code, Count	<u>GORMANTOW</u> A, T N	TN 38138
lake oath and say that I was personally present and did see MING obe the inventor named in the attached assignment, duly sign and exe Signed at: 2925 APPUNG POAD BAPTIETT,	cute the same for the purp	is personally known or identified to me poses therein stated.
On this <u>26</u> day of <u>November2</u> , 2014 Subscribing Writner	0	

REEL: 035960 FRAME: 0944

COMBINED DECLARATION & ASSIGNMENT

As a below named inventor, I hereby declare that:

TYPE OF DECLARATION: This declaration is for an original application.

INVENTORSHIP IDENTIFICATION: My residence, post office act that I am an original inventor, or an original joint inventor of the invention entitled: SURGICAL INSTRUMENT SPECIFICATION IDENTIFICATION: ☐ The attached application September 16, 2014 and PCT International Application Number FACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY application was made or authorized to be made by me. I hereby identified specification, including the claims. I acknowledge the di in 37, Code of Federal Regulations, § 1.56. DECLARATION: I hereby declare that all statements made her information and belief are believed to be true; and further that statements and the like so made are punishable by fine or impris Code, and that such willful false statements may jeopardize the variable.	subject matter that is claimed, a; or I The United States AppleCT/US filed on OF CANDOR: I hereby state state that I have reviewed and uty to disclose information, wherein of my own knowledge are to these statements were madesonment, or both, under Section	and for which a patent is sought on the lication Number 14/487199 filed on that the filing of the above-referenced understand the contents of the above-ich is material to patentability as defined true and that all statements made on the with the knowledge that willful false on 1001 of Title 18 of the United States
ASSIGNMENT OF INVENTION: In consideration of the payment receipt of which is hereby acknowledged, and for other good and ASSIGNOR: hereby sell, assign and transfer to Kevin C. Edwards 7316 Gerralyn Cove Olive Branch, MS 38654	valuable consideration, ASSIGNEE: GYRUS ACMI, INC. d/b/a Olympus Sun 136 Turnpike Road	gical Technologies America
Nationality: US	Southborough, MA State or Country of F	
a and the successors, assigns and legal representatives of the A any foreign countries, including all rights to claim priority, in an referenced applications: US Application Number 14/487199 filed filed on, including the right entire right, title and interest in each such application are also halready done so); and, in and to, all Letters Patent to be obtained to continuation, continuation-in-part, division, renewal, or substitute the including any and all rights to sue for past damages. ASSIGNERIAL ENGINERIAL ENGINERA EN	nd to any and all improveme on September 16, 2014 and at to claim priority in the United nereby sold, assigned and trained for said invention by the hereof, and as to letters paten SNOR hereby covenant that could conflict with this assignment facts and documents relitestify as to the same in an NEE or its legal representative said United States application	nts which are disclosed in the above- PCT International Application Number I States or in any foreign countries, (the insferred to Assignee to the extent not e above-referenced application or any transport any reissue or re-examination thereof, in assignment, sale, agreement or nent. ASSIGNOR further covenant that lating to said invention and said Letters by interference, litigation or proceeding es any and all papers, instruments or
nventor's Signature Chagus	Residence:	Olive Branch, MS 38654
Nov 25 12014	Post Office Address:	7316 Gerralyn Cove
Citizenship: US		
SUBSCRIBING WITNESS AFFIDAVIT	OF EXECUTION OF AN ASS	SIGNMENT
1. Joseph Green		
Vhose full post office address is: 6/94 Molsarway (v. P. Street, City, Postal Code, C.	artlett, TN 38135 V	is. A
lake oath and say that I was personally present and did see <u>Ke</u> o be the inventor named in the attached assignment, duly sign and Signed at: <u>OSTA</u> あったしくは	who lexecute the same for the purp	is personally known or identified to me coses therein stated.
On this 25th day of November ,2014	Som	
Subscribing W	fitness	
	1	PATENT

As a below named inventor, I hereby declare that:

TYPE OF DECLARATION: This declaration is for an original application.

INVENTORSHIP IDENTIFICATION: My residence, post office address that I am an original inventor, or an original joint inventor of the subject invention entitled: SURGICAL INSTRUMENT SPECIFICATION IDENTIFICATION: ☐ The attached application; or ☑ September 16, 2014 and PCT International Application Number PCT/USACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF C application was made or authorized to be made by me. I hereby state identified specification, including the claims. I acknowledge the duty to in 37, Code of Federal Regulations, § 1.56. DECLARATION: I hereby declare that all statements made herein of information and belief are believed to be true; and further that thes statements and the like so made are punishable by fine or imprisonme Code, and that such willful false statements may jeopardize the validity	It matter that is claimed, ar I The United States Applica I filed on	at the filing of the above-referenced inderstand the contents of the above-referenced inderstand the contents of the above-ris material to patentability as defined rue and that all statements made on with the knowledge that willful false 1001 of Title 18 of the United States	
ASSIGNMENT OF INVENTION: In consideration of the payment by AST receipt of which is hereby acknowledged, and for other good and valual ASSIGNOR: hereby sell, assign and transfer to John P. Flynn 3556 Waterford Cove N. Collierville, TN 38017 Nationality: US	ole consideration, ASSIGNEE: GYRUS ACMI, INC.	cal Technologies America 1772	
a and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and any foreign countries, including all rights to claim priority, in and to any and all improvements which are disclosed in the above-referenced applications: US Application Number 14/487199 filed on September 16, 2014 and PCT International Application Number filed on, including the right to claim priority in the United States or in any foreign countries, (the entire right, title and interest in each such application are also hereby sold, assigned and transferred to Assignee to the extent not already done so); and, in and to, all Letters Patent to be obtained for said invention by the above-referenced application or any continuation, continuation-in-part, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof, including any and all rights to sue for past damages. ASSIGNOR hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment. ASSIGNOR further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said United States application, said invention and said Letters Patent which may be necessary or designable to carry out the purposes thereof.			
Inventor's Signature	Residence:	Collierville, TN 38017	
Nov. 25, 2014	Post Office Address:	3556 Waterford Cove N.	
Citizenship: US			
SUBSCRIBING WITNESS AFFIDAVIT OF	EXECUTION OF AN ASSI	GNMENT	
Carole Coles			
Whose full post office address is: 428 East Swan Ridge Street, City, Postal Code, Counti	Memphis TN 38	iaa usA	
Make oath and say that I was personally present and did see <u> </u>	cute the same for the purpo ++ TW 38/38 USA	s personally known or identified to me oses therein stated.	
On this 25 day of November , 2014 Subscribing Witner	Coler		

As a below named inventor, I hereby declare that:

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that I am an origin		office address and citizenship are as st r of the subject matter that is claimed, a	
SPECIFICATION		plication; or ⊠ The United States Application; or III The United States Application	
ACKNOWLEDGM application was m identified specifica	IENT OF REVIEW OF PAPERS AND ade or authorized to be made by me. I	DUTY OF CANDOR: I hereby state hereby state that I have reviewed and ge the duty to disclose information, which	that the filing of the above-referenced understand the contents of the above-
DECLARATION: I information and b statements and the	I hereby declare that all statements me lief are believed to be true; and fur e like so made are punishable by fine	nade herein of my own knowledge are ther that these statements were made or imprisonment, or both, under Section ze the validity of the application or any p	with the knowledge that willful false n 1001 of Title 18 of the United States
		payment by ASSIGNEE to ASSIGNORS	
receipt of which is	hereby acknowledged, and for other go	ood and valuable consideration,	or the sum of One Dollar (\$1.00), the
ASSIGNOR: <i>Allen C. Palmer</i>	hereby sell, assign and tran	nsfer to ASSIGNEE: GYRUS ACMI, INC.	
11959 Henning O Arlington, TN 380		136 Turnpike Road	ical Technologies America
Nationality: US		Southborough, MA State or Country of Fo	
entire right, title an already done so); continuation, continuation, continuation, continuation, continuation, continuation, continuation and series and	and interest in each such application and and, in and to, all Letters Patent to nuation-in-part, division, renewal, or suld all rights to sue for past damages been or will be made or entered into bon its request, be provided promptly with known and accessible to ASSIGNOR divill promptly execute and deliver to apply for, obtain, maintain, issue and assary or desirable to carry out the purp	g the right to claim priority in the United re also hereby sold, assigned and trar be obtained for said invention by the bestitute thereof, and as to letters patent s. ASSIGNOR hereby covenant that which would conflict with this assignment hall pertinent facts and documents religiously as to the same in any ASSIGNEE or its legal representative of the said United States application, poses thereof.	asferred to Assignee to the extent not above-referenced application or any any reissue or re-examination thereof, no assignment, sale, agreement or ent. ASSIGNOR further covenant that ating to said invention and said Letters interference, litigation or proceeding as any and all papers, instruments or
Inventor's Signature	aya	Residence:	Arlington, TN 38002
Date:	April 6 th , 2015	Post Office Address:	11959 Henning Oakes Lane
Citizenship: US			
	SUBSCRIBING WITNESS AF	FIDAVIT OF EXECUTION OF AN ASS	IGNMENT
T, TAMMY	GOFORTH		
Whose full post offi	ice address is: 341 ASHLEY L Street, City, Postal	N. BRIGHTON, TN 38011 Code, Country	
	that I was personally present and did s named in the attached assignment, duly 1:30 pm	see who i sign and execute the same for the purp	s personally known or identified to me loses therein stated.
On this6th	day ofApril	, 2015 mmy Joso the	

As a below named inventor, I hereby declare that:

TYPE OF DECLARATION: This declaration is for an original application.

INVENTORSHIP IDENTIFICATION: My residence, post office acidress that I am an original inventor, or an original joint inventor of the subject invention entitled: FLEXIBLE RF ABLATION NEEDLE SPECIFICATION IDENTIFICATION: ☐ The attached application, or ⊠ September 16, 2014 and PCT International Application Number PCT/US ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CARTION was made or authorized to be made by me. I hereby state to identified specification, including the claims. I acknowledge the duty to compare the international papers of the properties of information and belief are believed to be true; and further that these statements and the like so made are punishable by fine or imprisonme Code, and that such willful false statements may jeopardize the validity.	matter that is claimed, an The United States Applica filed on filed on ANDOR: I hereby state the that I have reviewed and undisclose information, which my own knowledge are trends statements were made int, or both, under Section	d for which a patent is sought on the tion Number 14/487199 filed on at the filing of the above-referenced inderstand the contents of the above-is material to patentability as defined the and that all statements made on with the knowledge that willful false 1001 of Title 18 of the United States	
ASSIGNMENT OF INVENTION: In consideration of the payment by AST receipt of which is hereby acknowledged, and for other good and valuable ASSIGNOR: hereby sell, assign and transfer to Matthias Reif Bernwardkoppel 3 Hamburg 22455 Germany Nationality: German	ole consideration, ASSIGNEE: GYRUS ACMI, INC.	cal Technologies America 1772	
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Signature	Residence:	Hamburg, German	
Date: 22 200	Post Office Address:	Bernwardkoppel 3	
Citizenship: DE			
SUBSCRIBING WITNESS AFFIDAVIT OF		GNMENT	
1. Sporth keif	N		
Whose full post office address is: Sen word to pet 3, 2 Street, City, Postal Code, Count	ry HII		
Make bath and say that I was personally present and did see <u>やる</u> せ to be the inventor named in the attached assignment, duly sign and exe Signed at: <u>Lame</u>	who is cute the same for the purp	s personally known or identified to me oses therein stated.	
On this <u>22</u> day of <u>Jule</u> 2014 4.5" Subscribing Witne	<u>e 14: </u>		

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As a below named inventor, I hereby declare that:

As a below nam	ed inventor, I nereby a	eciare mar.		
TYPE OF DECLARATION	N: This declaration is f	for an original applica	tion.	
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invention entitled: SUR	GICAL INSTRUMEN REICATION: Ti The at	i tached application; 0		tion Number 14/487199 filed on
ACKNOWLEDGMENT application was made o	OF REVIEW OF PAP r authorized to be mad ncluding the claims. I a	ERS AND DUTY OF le by me. I hereby sta acknowledge the duty	CANDOR: I hereby state that I have reviewed and uto disclose information, which	nat the filing of the above- inderstand the contents of the above- is material to patentability as defined
in 37, Code of Federal P DECLARATION: I here information and belief	by declare that all sta are believed to be tru	tements made hereine; and further that t	Tof my own knowledge are these statements were made	with the knowledge that willful false
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ASSIGNMENT OF INV receipt of which is here			luable consideration,	
ASSIGNOR:	hereby sell, ass	ign and transfer to	DUDUIC ACMI INC	
Chee K. Teo	•		d/b/a Olympus Surg	ical Technologies America
1615 Grand Junction Alpharetta, GA 30004			136 Turnpike Road Southborough, MA	
			State or Country of Fo	ormation: US
Nationality: German. /	d the half of the t	•	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
any foreign countries, referenced application filed entire right, title and halready done so); and continuation, continuation, continuation, and all encumbrance has been assigned will, upon Patent as may be known related thereto and waffidavits required to a which may be necession.	s: US Application Num on nterest in each such a d, in and to, all Letter dion-in-part, division, rel rights to sue for part en or will be made or en its request, be provided own and accessible to dill promptly execute a apply for, obtain, mainta ary or desirable to carry	ber 14/487199 filed, including the right upplication are also h is Patent to be obtainewal, or substitute th ast damages. ASSIG entered into which w id promptly with all per b ASSIGNOR and will and deliver to ASSIGI in, issue and enforce y out the purposes the	on September 16, 2014 and to claim priority in the United ereby sold, assigned and trained for said invention by the ereof, and as to letters patent snow hereby covenant that build conflict with this assignment facts and documents relitestify as to the same in an NEE or its legal representations and United States applications.	and interest for the United States and his which are disclosed in the above-PCT International Application Number States or in any foreign countries, (the insterred to Assignee to the extent not a above-referenced application or any tany reissue or re-examination thereof, no assignment, sale, agreement or ment. ASSIGNOR further covenant that plating to said invention and said Letters by interference, litigation or proceeding was any and all papers, instruments or in, said invention and said Letters Patent
Inventor's Signature	le Carp		Residence:	Alpharetta, GA 30004
Date:	3/4/201	15	Post Office Address:	1615 Grand Junction
Citizenship: US → M	ALAYSIA	•	. c .	
	SUBSCRIBING	WITNESS AFFIDAV	T OF EXECUTION OF AN AS	SSIGNMENT
1. Tiffice	M R. TED		in the second se	
Whose full post office	address is: 1615 Stree	Grand Junutio et, City, Postal Code,	n Albharctta, GA 3 Country	AZV POOQ
Make oath and say the to be the inventor nate Signed at:	nat I was personally promed in the attached as	esent and did see <u>(</u> signment, duly sign a	nd execute the same for the p	o is personally known or identified to me urposes therein stated.
On this	_ day of _ <u>Mar U</u>	7.1.1	2016 1. T. TW	-
		11/400-4	16. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	

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ASSIGNMENT OF INVENTION: In consideration of the payment by ASTECLE OF Which is hereby acknowledged, and for other good and valuate ASSIGNOR: hereby sell, assign and transfer to Phillip A. Ryan 3628 Waynoka Avenue Memphis, TN 38111 Nationality: US	ole consideration, ASSIGNEE: GYRUS ACMI, INC.	ical Technologies America 01772
a and the successors, assigns and legal representatives of the ASSIG any foreign countries, including all rights to claim priority, in and to referenced applications: US Application Number 14/487199 filed on Sequentiar right, title and interest in each such application are also hereby already done so); and, in and to, all Letters Patent to be obtained continuation, continuation-in-part, division, renewal, or substitute thereo including any and all rights to sue for past damages. ASSIGNOF and will be made or entered into which would a ASSIGNEE will, upon its request, be provided promptly with all pertinent patent as may be known and accessible to ASSIGNOR and will test related thereto and will promptly execute and deliver to ASSIGNEE officiavits required to apply for, obtain, maintain issue and enforce said which may be necessary or desirable to carry out the purposes thereof.	any and all improvemen eptember 16, 2014 and I aim priority in the United a sold, assigned and tranfor said invention by the f, and as to letters patent that conflict with this assignment facts and documents relative to the same in any or its legal representative	ts which are disclosed in the above- PCT International Application Number States or in any foreign countries, (the asferred to Assignee to the extent not above-referenced application or any any reissue or re-examination thereof, no assignment, sale, agreement or ent. ASSIGNOR further covenant that ating to said invention and said Letters interference, litigation or proceeding as any and all papers, instruments or
	Residence:	Memphis, TN 38111
Date: Lec 2019	Post Office Address:	3628 Waynoka Avenue
Citizenship: US		
SUBSCRIBING WITNESS AFFIDAVIT OF E		
Aske oath and say that I was personally present and did see Philobe the inventor named in the attached assignment, duly sign and execusions at: 1:03em	Quan who is cute the same for the purp	s personally known or identified to me oses therein stated.
On this day of Ceruber , 2014		
Subscribing Witnes	S	

PATENT REEL: 035960 FRAME: 0949

RECORDED: 06/23/2015