# 505774373 11/14/2019

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5821191

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
STEPHEN TIMOTHY DOLL	09/23/2019
PETER S. LOVELY	10/13/2019
JAMES ALEXANDER PHILP	10/02/2019
JOHN R. PROVIDENZA	09/24/2019
TIMOTHY N. ROBERTS	09/24/2019
LEON J. STEVENS	09/16/2019
PHILIP J. STIMAC	09/24/2019

# **RECEIVING PARTY DATA**

Name:	ADELOS, INC.
Street Address:	145 SOUTHLAKE CREST
Internal Address:	SUITE 2
City:	POLSON
State/Country:	MONTANA
Postal Code:	59860

# **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16563578

# **CORRESPONDENCE DATA**

**Fax Number:** (952)465-0771

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:** 9524650770

Email:docketing@fogglaw.comCorrespondent Name:FOGG & POWERS LLCAddress Line 1:4600 W 77TH STREET

Address Line 2: SUITE 305

Address Line 4: MINNEAPOLIS, MINNESOTA 55435

ATTORNEY DOCKET NUMBER: 317.021US01

NAME OF SUBMITTER: DENISE A. SCHULLO

SIGNATURE: / Denise A. Schullo /

505774373 REEL: 051016 FRAME: 0524

DATE SIGNED:	11/14/2019
Total Attachments: 35	
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### ASSIGNMENT

WHEREAS, we Stephen Timothy Doll, residing at Big Arm, MT; Peter S. Lovely, residing at Portland, OR; James Alexander Philp, residing at Missoula, MT; John R. Providenza, residing at Tigard, OR; Timothy N. Roberts, residing at Tigard, OR; Leo J. Stevens, residing at Polson, MT; Philip J. Stimac, residing at Montpelier, VT, made certain new and useful inventions and improvements for which an application for Letters Patent of the United States was filed on September 6, 2019 and assigned U.S. Serial No. 16/563,578, entitled OPTICAL MANDREL, OPTICAL-FIBER ASSEMBLY INCLUDING AN OPTICAL MANDREL, AND SYSTEM FOR DETECTING AN ACOUSTIC SIGNAL INCIDENT ON AN OPTICAL-FIBER ASSEMBLY (the "Application").

AND WHEREAS, Adelos, Inc., a corporation organized and existing under and by virtue of the laws of the State of Montana, and having an office and place of business at 145 Southlake Crest, Suite 2, Polson, MT 59860, United States, (hereinafter "Assignee") is desirous of acquiring the entire right, title and interest in and to the inventions, improvements and the Application and in and to the Letters Patent to be obtained therefor;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto the Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the Application, and in and to the Application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the inventions and improvements to the Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the Assignee, its successors and assigns.

AND, for the consideration identified above, we do agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to the Assignee, its successors and representatives all facts known to us relating to the improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in the Assignee, its successors or assigns the entire right, title and interest in and to the improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore we covenant and agree with the Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

IN TESTIMONY WHEREOF, I have 20  Signature of Witness #1	Peter S. Lovely  Printed Name of Witness # 1
20	Peter S. Lovely
	ve hereunto set my hand thisday of
w.	
Signature of Witness #2	Printed Name of Witness # 2
5016	SAIRAH PARKE
Egitada Os. Williamo W.	
ignature of Witness #1	Christopher Parke  Printed Name of Witness # 1
	Stephen Timothy Doll
.0 <u>19</u> .	Starting
	- Land
IN TESTIMONY WHEREOF, I have	ve hereunto set my hand this 23 day of <u>SelTEMBER</u>

Title: OPTICAL MANDREL, OPTICAL-FIBER ASSEMBLY INCLUDING AN OPTICAL MANDREL, AND SYSTEM FOR DETECTING AN ACOUSTIC SIGNAL INCIDENT ON AN OPTICAL-FIBER ASSEMBLY

Assignment

Assignment		
Title: OPTICAL MANDREL,	, OPTICAL-FIBER ASSEMBLY INCLUDING AN OPTICAL MAND	REL, AND

ATTORNEY DOCKET: /317.021US01

PAGE 3 OF 5

IN TESTIMONY WHEREOF, I have hereunto set my hand thisday of		
	James Alexander Philp	
Signature of Witness #1	Printed Name of Witness # 1	
Signature of Witness #2	Printed Name of Witness # 2	
IN TESTIMONY WHEREOF, I hav	e hereunto set my hand thisday of	
	John R. Providenza	
Signature of Witness #1	Printed Name of Witness # 1	

Assignment						
Title: OPTICAL M	ANDREL	OPTICAL FIRED	ASSEMBLY INCL	LIDING .	AN OPTICAL	MANDRE

ATTORNEY DOCKET: /317.021US01

PAGE 4 OF 5

IN TESTIMONY WHEREOF, I have here	unto set my hand thisday of	
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	Timothy N. Roberts	
Signature of Witness #1	Printed Name of Witness # 1	_
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Signature of Witness #2	Printed Name of Witness # 2	
IN TESTIMONY WHEREOF. I have here	unto set my hand thisday of	
20	,	
	Leo J. Stevens	
	Leo J. Stevens	
Signature of Witness #1	Printed Name of Witness # 1	_
Signature of Witness #2	Printed Name of Witness # 2	_

Title: OPTICAL MANDREL, OPTICAL-FIBER ASSEMBI SYSTEM FOR DETECTING AN ACOUSTIC SIGNAL INC	
ATTORNEY DOCKET: /317.021US01	
PAGE 5 OF 5	
IN TESTIMONY WHEREOF, I have hereunto	set my hand this day of
20	
	Philip J. Stimac
	rimp J. Sumac
Signature of Witness #1	Printed Name of Witness # 1
Signature of Without Wi	222200 0 2 11 20200 11 2

Printed Name of Witness # 2

Assignment

Signature of Witness #2

#### ASSIGNMENT

WHEREAS, we Stephen Timothy Doll, residing at Big Arm, MT; Peter S. Lovely, residing at Portland, OR; James Alexander Philp, residing at Missoula, MT; John R. Providenza, residing at Tigard, OR; Timothy N. Roberts, residing at Tigard, OR; Leo J. Stevens, residing at Polson, MT; Philip J. Stimac, residing at Montpelier, VT, made certain new and useful inventions and improvements for which an application for Letters Patent of the United States was filed on September 6, 2019 and assigned U.S. Serial No. 16/563,578, entitled OPTICAL MANDREL, OPTICAL-FIBER ASSEMBLY INCLUDING AN OPTICAL MANDREL, AND SYSTEM FOR DETECTING AN ACOUSTIC SIGNAL INCIDENT ON AN OPTICAL-FIBER ASSEMBLY (the "Application").

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NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto the Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the Application, and in and to the Application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the inventions and improvements to the Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the Assignee, its successors and assigns.

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ATTORNEY DOCKET: /317.021US01 PAGE 2 OF 5	
IN TESTIMONY WHEREOF, I have hereun 20	to set my hand thisday of,
	Stephen Timothy Doll
Signature of Witness #1	Printed Name of Witness # 1
Signature of Witness #2	Printed Name of Witness # 2
IN TESTIMONY WHEREOF, I have hereun 20 <u>/9</u>	to set my hand this 13th day of October  Peter S. Lovely
Many Zylstre	NANCY ZYLSTRA Printed Name of Witness # 1
signature of Witness #2	MARTIN 5. MULLER Printed Name of Witness # 2

Title: OPTICAL MANDREL, OPTICAL-FIBER ASSEMBLY INCLUDING AN OPTICAL MANDREL, AND SYSTEM FOR DETECTING AN ACOUSTIC SIGNAL INCIDENT ON AN OPTICAL-FIBER ASSEMBLY

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Title: OPTI	CAL MANDREI	OPTICAL-FIBER	ASSEMBLY IN	ICLUDING AT	N OPTICAL I	MANDRI

ATTORNEY DOCKET: /317.021US01

PAGE 3 OF 5

IN TESTIMONY WHEREOF, I ha					
	James Alexander Philp				
Signature of Witness #1	Printed Name of Witness # 1				
Signature of Witness #2	Printed Name of Witness # 2				
	we hereunto set my hand thisday of				
	ve hereunto set my hand thisday of  John R. Providenza				
IN TESTIMONY WHEREOF, I ha 20 Signature of Witness #1					

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ATTORNEY DOCKET: /317.021US01

PAGE 4 OF 5

IN TESTIMONY WHEREOF, I h	have hereunto set my hand thisday of
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	Timothy N. Roberts
Signature of Witness #1	Printed Name of Witness # 1
Signature of Witness #2	Printed Name of Witness # 2
Signature of witness #2	Printed Name of Witness # 2
	nave hereunto set my hand thisday of
20	
	Leo J. Stevens
Signature of Witness #1	Printed Name of Witness # 1
Signature of Witness #2	Printed Name of Witness # 2

Title: OPTICAL MANDREL, OPTICAL-FIBER ASSEMBL SYSTEM FOR DETECTING AN ACOUSTIC SIGNAL INC	
ATTORNEY DOCKET: /317.021US01 PAGE 5 OF 5	
IN TESTIMONY WHEREOF, I have hereunto 20	set my hand thisday of
	Philip J. Stimac
Signature of Witness #1	Printed Name of Witness # 1

Printed Name of Witness # 2

Assignment

Signature of Witness #2

#### ASSIGNMENT

WHEREAS, we Stephen Timothy Doll, residing at Big Arm, MT; Peter S. Lovely, residing at Portland, OR; James Alexander Philp, residing at Missoula, MT; John R. Providenza, residing at Tigard, OR; Timothy N. Roberts, residing at Tigard, OR; Leo J. Stevens, residing at Polson, MT; Philip J. Stimac, residing at Montpelier, VT, made certain new and useful inventions and improvements for which an application for Letters Patent of the United States was filed on September 6, 2019 and assigned U.S. Serial No. 16/563,578, entitled OPTICAL MANDREL, OPTICAL-FIBER ASSEMBLY INCLUDING AN OPTICAL MANDREL, AND SYSTEM FOR DETECTING AN ACOUSTIC SIGNAL INCIDENT ON AN OPTICAL-FIBER ASSEMBLY (the "Application").

AND WHEREAS, Adelos, Inc., a corporation organized and existing under and by virtue of the laws of the State of Montana, and having an office and place of business at 145 Southlake Crest, Suite 2, Polson, MT 59860, United States, (hereinafter "Assignee") is desirous of acquiring the entire right, title and interest in and to the inventions, improvements and the Application and in and to the Letters Patent to be obtained therefor;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto the Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the Application, and in and to the Application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the inventions and improvements to the Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the Assignee, its successors and assigns.

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Assignment Title: OPTICAL MANDREL, OPTICAL-FIBER ASSEMBLY INCLUDING AN OPTICAL MANDREL, AND SYSTEM FOR DETECTING AN ACOUSTIC SIGNAL INCIDENT ON AN OPTICAL-FIBER ASSEMBLY ATTORNEY DOCKET: /317,021US01 PAGE 2 OF 5 IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_day of \_\_\_\_\_, 20\_\_\_\_. Stephen Timothy Doll Signature of Witness #1 Printed Name of Witness # 1 Signature of Witness #2 Printed Name of Witness # 2 IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_day of \_\_\_\_\_\_, 20\_\_\_\_\_. Peter S. Lovely

Signature of Witness #1 Printed Name of Witness # 1 Signature of Witness #2 Printed Name of Witness # 2

Assignment Title: OPTICAL MANDREL, OPTICAL-FIBER ASSEMBLY INCLUDING AN OPTICAL MANDREL, AND SYSTEM FOR DETECTING AN ACOUSTIC SIGNAL INCIDENT ON AN OPTICAL-FIBER ASSEMBLY ATTORNEY DOCKET: /317.021US01 PAGE 3 OF 5 IN TESTIMONY WHEREOF, I have hereunto set my hand this 2 day of od. 20\_19 . Printed Name of Witness # 1 Signature of Witness #2 IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_day of \_\_\_\_\_, 20 John R. Providenza Signature of Witness #1 Printed Name of Witness # 1

Signature of Witness #2

PATENT REEL: 051016 FRAME: 0538

Printed Name of Witness # 2

Assignment Title: OPTICAL MANDREL, OPTICAL-FIBER ASSEMBLY INCLUDING AN OPTICAL MANDREL, AND SYSTEM FOR DETECTING AN ACOUSTIC SIGNAL INCIDENT ON AN OPTICAL-FIBER ASSEMBLY ATTORNEY DOCKET: /317.021US01 PAGE 4 OF 5 IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_day of \_\_\_\_\_\_, 20 . Timothy N. Roberts Signature of Witness #1 Printed Name of Witness # 1 Signature of Witness #2 Printed Name of Witness # 2 IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_day of \_\_\_\_\_\_, Leo J. Stevens Printed Name of Witness # 1 Signature of Witness #1

Signature of Witness #2

PATENT REEL: 051016 FRAME: 0539

Printed Name of Witness # 2

Assignment Title: OPTICAL MANDREL, OPTICAL-FIBER ASSEME SYSTEM FOR DETECTING AN ACOUSTIC SIGNAL IN ATTORNEY DOCKET: /317,021US01 PAGE 5 OF 5	•
IN TESTIMONY WHEREOF, I have hereunto 20	o set my hand thisday of
	Philip J. Stimac
Signature of Witness #1	Printed Name of Witness # 1
Signature of Witness #2	Printed Name of Witness # 2

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AND WHEREAS, Adelos, Inc., a corporation organized and existing under and by virtue of the laws of the State of Montana, and having an office and place of business at 145 Southlake Crest, Suite 2, Polson, MT 59860, United States, (hereinafter "Assignee") is desirous of acquiring the entire right, title and interest in and to the inventions, improvements and the Application and in and to the Letters Patent to be obtained therefor;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto the Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the Application, and in and to the Application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the inventions and improvements to the Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the Assignee, its successors and assigns.

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Assignment			
Title: OPTICAL MANI	DREL, OPTICAL-FIBER	ASSEMBLY INCLUDING	AN OPTICAL MANDREL, AND

ATTORNEY DOCKET: /317.021US01

PAGE 2 OF 5

IN TESTIMONY WHEREOF, I ha	we hereunto set my hand thisday of				
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	Stephen Timothy Doll				
Signature of Witness #1	Printed Name of Witness # 1				
Signature of Witness #2	Printed Name of Witness # 2				
IN TESTIMONY WHEREOF, I ha	ave hereunto set my hand thisday of				
	Peter S. Lovely				
Signature of Witness #1	Printed Name of Witness # 1				
Signature of Witness #2	Printed Name of Witness # 2				

Assignment Title: OPTICAL MANDREL, OPTICAL-FIBER ASSEMBLY INCLUDING AN OPTICAL MANDREL, AND SYSTEM FOR DETECTING AN ACOUSTIC SIGNAL INCIDENT ON AN OPTICAL-FIBER ASSEMBLY ATTORNEY DOCKET: /317.021US01 PAGE 3 OF 5 IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_day of \_\_\_\_\_ 20 James Alexander Philp Signature of Witness #1 Printed Name of Witness #1 Signature of Witness #2 Printed Name of Witness # 2 IN TESTIMONY WHEREOF, I have bereunto set my hand this 24 day of 5ep

Printed Name of Witness # 2

Assignment			
Title: OPTICAL MANI	DREL, OPTICAL-FIBER	ASSEMBLY INCLUDING	AN OPTICAL MANDREL, AND

ATTORNEY DOCKET: /317.021US01

PAGE 4 OF 5

IN TESTIMONY WHEREOF, I h	have hereunto set my hand thisday of
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	Timothy N. Roberts
Signature of Witness #1	Printed Name of Witness # 1
Signature of Witness #2	Printed Name of Witness # 2
Signature of witness #2	Printed Name of Witness # 2
	nave hereunto set my hand thisday of
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	Leo J. Stevens
Signature of Witness #1	Printed Name of Witness # 1
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ATTORNEY DOCKET: /317.021US01 PAGE 5 OF 5	
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PAGE 2 OF 5

IN TESTIMONY WHEREOF, I	have hereunto set my hand thisday of
20	
	Stephen Timothy Doll
Signature of Witness #1	Printed Name of Witness # 1
Signature of Witness #2	Printed Name of Witness # 2
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DI TECTIMONIA MATERICO II	
20 . IN TESTIMONY WHEREOF, I	have hereunto set my hand thisday of
	Peter S. Lovely
	Telef 5. Lovery
Signature of Witness #1	Printed Name of Witness # 1
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PAGE 3 OF 5

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	James Alexander Philp
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Assignment Title: OPTICAL MANDREL, OPTICAL-FIBER ASSEMB SYSTEM FOR DETECTING AN ACOUSTIC SIGNAL IN	LY INCLUDING AN OPTICAL MANDREL, AND CIDENT ON AN OPTICAL-FIBER ASSEMBLY
ATTORNEY DOCKET: /317.021US01 Page 4 of 5	
IN TESTIMONY WHEREOF, I have hereunto 20 19.	set my hand this 24 day of September  Timothy N. Roberts
Signature of Witness #1	Sohn R PROVIDER  Printed Name of Witness # 1
Signature of Witness #2	Printed Name of Witness # 2
IN TESTIMONY WHEREOF, I have hereunt 20	o set my hand thisday of
	Leo J. Stevens
Signature of Witness #1	Printed Name of Witness # 1
Signature of Witness #2	Printed Name of Witness # 2

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Printed Name of Witness # 2

Title: OPTICAL MANDREL, OPTICAL-FIBER ASSEMBLY INCLUDING AN OPTICAL MANDREL, AND

Assignment

Signature of Witness #2

### ASSIGNMENT

WHEREAS, we Stephen Timothy Doll, residing at Big Arm, MT; Peter S. Lovely, residing at Portland, OR; James Alexander Philp, residing at Missoula, MT; John R. Providenza, residing at Tigard, OR; Timothy N. Roberts, residing at Tigard, OR; Leo J. Stevens, residing at Polson, MT; Philip J. Stimac, residing at Montpelier, VT, made certain new and useful inventions and improvements for which an application for Letters Patent of the United States was filed on September 6, 2019 and assigned U.S. Serial No. 16/563,578, entitled OPTICAL MANDREL, OPTICAL-FIBER ASSEMBLY INCLUDING AN OPTICAL MANDREL, AND SYSTEM FOR DETECTING AN ACOUSTIC SIGNAL INCIDENT ON AN OPTICAL-FIBER ASSEMBLY (the "Application").

AND WHEREAS, Adelos, Inc., a corporation organized and existing under and by virtue of the laws of the State of Montana, and having an office and place of business at 145 Southlake Crest, Suite 2, Polson, MT 59860, United States, (hereinafter "Assignee") is desirous of acquiring the entire right, title and interest in and to the inventions, improvements and the Application and in and to the Letters Patent to be obtained therefor;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto the Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the Application, and in and to the Application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the inventions and improvements to the Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the Assignee, its successors and assigns.

AND, for the consideration identified above, we do agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to the Assignee, its successors and representatives all facts known to us relating to the improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in the Assignee, its successors or assigns the entire right, title and interest in and to the improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore we covenant and agree with the Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

Assignment			
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Title: OPTICAL MANDREL, OPTICAL-FIBER ASSEMBLY INCLUDING AN OPTICAL MANDREL, AND SYSTEM FOR DETECTING AN ACOUSTIC SIGNAL INCIDENT ON AN OPTICAL-FIBER ASSEMBLY

ATTORNEY DOCKET: /317.021US01

PAGE 2 OF 5

IN TESTIMONY WHEREOF, I	have hereunto set my hand thisday of
20	
	Stephen Timothy Doll
Signature of Witness #1	Printed Name of Witness # 1
Signature of Witness #2	Printed Name of Witness # 2
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DI TECTIMONIA MATERICO II	
20 . IN TESTIMONY WHEREOF, I	have hereunto set my hand thisday of
	Peter S. Lovely
	Telef 5. Lovery
Signature of Witness #1	Printed Name of Witness # 1
Signature of Witness #2	Printed Name of Witness # 2

Assignment				
THE OPERAL MANDER	ODTTOAT	PIDED	ACCENTED VIOLED IO	ANTODETOAT

Title: OPTICAL MANDREL, OPTICAL-FIBER ASSEMBLY INCLUDING AN OPTICAL MANDREL, AND SYSTEM FOR DETECTING AN ACOUSTIC SIGNAL INCIDENT ON AN OPTICAL-FIBER ASSEMBLY

ATTORNEY DOCKET: /317.021US01

PAGE 3 OF 5

IN TESTIMONY WHEREOF, I ha	
	James Alexander Philp
ignature of Witness #1	Printed Name of Witness # 1
ignature of Witness #2	Printed Name of Witness # 2
IN TESTIMONY WHEREOF, I ha	ave hereunto set my hand thisday of
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IN TESTIMONY WHEREOF, I has 0  ignature of Witness #1	

SYSTEM FOR DETECTING AN ACOUSTIC SIGNAL	MBLY INCLUDING AN OPTICAL MANDREL, AND LINCIDENT ON AN OPTICAL-FIBER ASSEMBLY
ATTORNEY DOCKET: /317.021US01 PAGE 4 OF 5	
PAGE 4 OF 3	
IN TESTIMONY WHEREOF, I have heret	unto set my hand thisday of,
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	Timothy N. Roberts
Signature of Witness #1	Printed Name of Witness # 1
Simple of Witness #2	Printed Name of Witness # 2
Signature of Witness #2	Timed Name of Witness # 2
	Soot.
IN TESTIMONY WHEREOF, I have here	eunto set my hand this 16 day of,
20 [7]	1
	Lean Sh
	Leo J. Stevens Leon (Leo) J. Stevens
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110	Michael E. Denney
Signature of Witness #1	Printed Name of Witness # 1

N Nilveud MSP. Dolle Signature of Witness #2

> PATENT REEL: 051016 FRAME: 0554

Nathaniel Dale
Printed Name of Witness # 2

Title: OPTICAL MANDREL, OPTICAL-FIBER ASSEMBL SYSTEM FOR DETECTING AN ACOUSTIC SIGNAL INC	
ATTORNEY DOCKET: /317.021US01 PAGE 5 OF 5	
IN TESTIMONY WHEREOF, I have hereunto 20	set my hand thisday of
	Philip J. Stimac
Signature of Witness #1	Printed Name of Witness # 1

Printed Name of Witness # 2

Assignment

Signature of Witness #2

### ASSIGNMENT

WHEREAS, we Stephen Timothy Doll, residing at Big Arm, MT; Peter S. Lovely, residing at Portland, OR; James Alexander Philp, residing at Missoula, MT; John R. Providenza, residing at Tigard, OR; Timothy N. Roberts, residing at Tigard, OR; Leo J. Stevens, residing at Polson, MT; Philip J. Stimac, residing at Montpelier, VT, made certain new and useful inventions and improvements for which an application for Letters Patent of the United States was filed on September 6, 2019 and assigned U.S. Serial No. 16/563,578, entitled OPTICAL MANDREL, OPTICAL-FIBER ASSEMBLY INCLUDING AN OPTICAL MANDREL, AND SYSTEM FOR DETECTING AN ACOUSTIC SIGNAL INCIDENT ON AN OPTICAL-FIBER ASSEMBLY (the "Application").

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NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto the Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the Application, and in and to the Application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the inventions and improvements to the Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the Assignee, its successors and assigns.

AND, for the consideration identified above, we do agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to the Assignee, its successors and representatives all facts known to us relating to the improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in the Assignee, its successors or assigns the entire right, title and interest in and to the improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore we covenant and agree with the Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

Title: OPTICAL MANDREL, OPTICAL-FIBER ASSEMBLY INCLUDING AN OPTICAL MANDREL, AND SYSTEM FOR DETECTING AN ACOUSTIC SIGNAL INCIDENT ON AN OPTICAL-FIBER ASSEMBLY

ATTORNEY DOCKET: /317.021US01

PAGE 2 OF 5

IN TESTIMONY WHEREOF, I have hereunto set my hand thisday of		
20		
	Stephen Timothy Doll	
Signature of Witness #1	Printed Name of Witness # 1	
Signature of Witness #2	Printed Name of Witness # 2	
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	Peter S. Lovely	
	Telef 5. Lovery	
Signature of Witness #1	Printed Name of Witness # 1	
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Assignment		
Title: OPTICAL MANDREL,	OPTICAL-FIBER ASSEMBLY INCLUDING AN OPTICAL MANDREL, AN	ND.

ATTORNEY DOCKET: /317.021US01

PAGE 3 OF 5

20	TESTIMONY WHEREOF, I have hereunto set my hand thisday of	
	James Alexander Philp	
Signature of Witness #1	Printed Name of Witness # 1	
Signature of Witness #2	Printed Name of Witness # 2	
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	we hereunto set my hand thisday of  John R. Providenza	
IN TESTIMONY WHEREOF, I ha		

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SYSTEM FOR DETECTING AN ACOUSTIC SIGNAL INCIDENT ON AN OPTICAL-FIBER ASSEMBLY ATTORNEY DOCKET: /317.021US01

PAGE 4 OF 5

IN TESTIMONY WHEREOF, I have hereunto set my hand thisday of		
20		
	Timothy N. Roberts	
	Timothy IV. Roberts	
	_	
Signature of Witness #1	Printed Name of Witness # 1	
Signature of Witness #2	Printed Name of Witness # 2	
IN TESTIMONY WHEREOF, I have	hereunto set my hand thisday of	
20		
	I I C4	
	Leo J. Stevens	
Signature of Witness #1	Printed Name of Witness # 1	
Signature of Witness #2	Printed Name of Witness # 2	
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ATTORNEY DOCKET: /317.021US01 PAGE 5 OF 5	
IN TESTIMONY WHEREOF, I have	e bereunto set my hand this <u>A4</u> day of <u>September</u>
20 <u>\%</u>	
	Philip J. Stimac

| Alexander Alland/ | Signature of Witness # 1 | Printed Name of Witness # 1

Signature of Witness #2

Printed Name of Witness # 2

PATENT REEL: 051016 FRAME: 0560

**RECORDED: 11/14/2019**