

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4939130

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MANJUSHA MEHENDALE	04/30/2018
MICHAEL KOTELYANSKII	04/20/2018
PRIYA MUKUNDHAN	04/20/2018
XUEPING RU	04/20/2018
JONATHAN COHEN	04/27/2018
TIMOTHY KRYMAN	04/23/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	RUDOLPH TECHNOLOGIES, INC.
<b>Street Address:</b>	ONE RUDOLPH ROAD
<b>City:</b>	FLANDERS
<b>State/Country:</b>	NEW JERSEY
<b>Postal Code:</b>	07836
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15515126
<b>Application Number:</b>	62056773
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(612)332-9081
<i>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.</i>	
<b>Phone:</b>	612-336-5300
<b>Email:</b>	kwebber@merchantgould.com
<b>Correspondent Name:</b>	MICHAEL S. WAGNER
<b>Address Line 1:</b>	P.O. BOX 2903
<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55402-0903
<b>ATTORNEY DOCKET NUMBER:</b>	17695.0003USWO
<b>NAME OF SUBMITTER:</b>	MICHAEL S. WAGNER
<b>SIGNATURE:</b>	/Michael S. Wagner/
<b>DATE SIGNED:</b>	04/30/2018

**Total Attachments: 10**

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### ASSIGNMENT

WHEREAS, we, Manjusha Mehendale, Michael Kotelyanskii, Robin Mair, Priya Mukundhan, Xueping Ru, Jonathan Cohen and Timothy Kryman, made certain new and useful inventions and improvements for which we filed an application with the United States Patent and Trademark Office on March 28, 2017 as U.S. Application Serial No. 15/515,126 and entitled NON-DESTRUCTIVE ACOUSTIC METROLOGY FOR VOID DETECTION and claims priority to provisional U.S. Patent Application Serial No. 62/056,773, filed with the United States Patent and Trademark Office on September 29, 2014.

AND WHEREAS, Rudolph Technologies, Inc., a corporation organized and existing under and by virtue of the laws of the State of New Jersey, and having an office and place of business at One Rudolph Road, Flanders, New Jersey 07836 (hereinafter "Assignee") is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and 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 and in consideration of the sum of One Dollar and other good and valuable considerations, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and the right(s) to claim priority thereto, and in and to the application, all patent applications based upon said application, all divisions, continuations, 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 aforesaid 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 aforesaid, we do hereby 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 said Assignee, its successors and representatives all facts known to us relating to said 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 said 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 said 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 hereunto set my hand this 30<sup>th</sup> day of April, 2018.

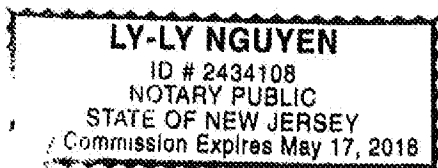
MS Mehendale  
Manjusha Mehendale

STATE OF New Jersey )  
COUNTY OF Morris ) ss.

On this 30<sup>th</sup> day of April, 2018, before me personally appeared Manjusha Mehendale to me known and known to me to be the person described in and who executed the foregoing instrument, and Manjusha Mehendale duly acknowledged to me that Manjusha Mehendale executed the same for the uses and purposes therein set forth.

[SEAL]

Notary Public



Q/R

Michael Kotelyanski

STATE OF New Jersey )  
COUNTY OF Morris )

On this 20<sup>th</sup> day of April, 2018, before me personally appeared Michael Kotelyanskii to me known and known to me to be the person described in and who executed the foregoing instrument, and Michael Kotelyanskii duly acknowledged to me that Michael Kotelyanskii executed the same for the uses and purposes therein set forth.



Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_\_ day of \_\_\_\_\_, 2018.

Robin Mair

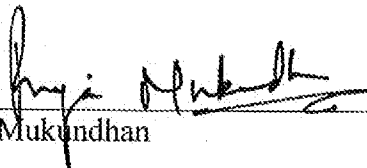
STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2018, before me personally appeared Robin Mair to me known and known to me to be the person described in and who executed the foregoing instrument, and Robin Mair duly acknowledged to me that Robin Mair executed the same for the uses and purposes therein set forth.

[SEAL]

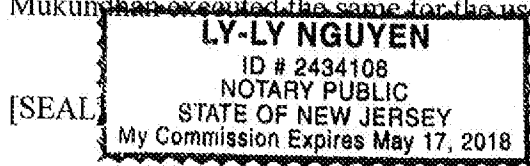
Notary Public

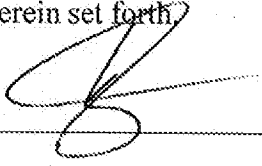
IN TESTIMONY WHEREOF, I have hereunto set my hand this 20<sup>th</sup> day of April, 2018.

  
Priya Mukundhan


STATE OF New Jersey )  
COUNTY OF Morris ) ss.

On this 20<sup>th</sup> day of April, 2018, before me personally appeared Priya Mukundhan to me known and known to me to be the person described in and who executed the foregoing instrument, and Priya Mukundhan duly acknowledged to me that Priya Mukundhan executed the same for the uses and purposes therein set forth.



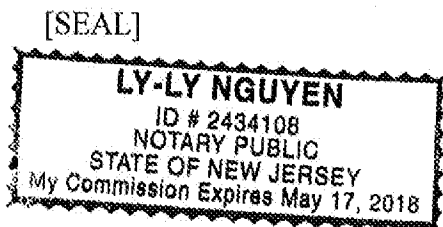
  
Notary Public


IN TESTIMONY WHEREOF, I have hereunto set my hand this 20<sup>th</sup> day of April, 2018.

  
Xueping Ru

STATE OF New Jersey )  
COUNTY OF Morris ) ss.

On this 20<sup>th</sup> day of April, 2018, before me personally appeared Xueping Ru to me known and known to me to be the person described in and who executed the foregoing instrument, and Xueping Ru duly acknowledged to me that Xueping Ru executed the same for the uses and purposes therein set forth.



  
Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this 27 day of April, 2018.

Jonathan Cohen  
Jonathan Cohen

STATE OF Oregon )  
 ) ss.  
COUNTY OF Multnomah )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2018, before me personally appeared Jonathan Cohen to me known and known to me to be the person described in and who executed the foregoing instrument, and Jonathan Cohen duly acknowledged to me that Jonathan Cohen executed the same for the uses and purposes therein set forth.

[SEAL]

\_\_\_\_\_  
Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_\_ day of \_\_\_\_\_, 2018.

\_\_\_\_\_  
Timothy Kryman

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2018, before me personally appeared Timothy Kryman to me known and known to me to be the person described in and who executed the foregoing instrument, and Timothy Kryman duly acknowledged to me that Timothy Kryman executed the same for the uses and purposes therein set forth.

[SEAL]

\_\_\_\_\_  
Notary Public

### **ASSIGNMENT**

WHEREAS, we, Manjusha Mehendale, Michael Kotelyanskii, Robin Mair, Priya Mukundhan, Xueping Ru, Jonathan Cohen and Timothy Kryman, made certain new and useful inventions and improvements for which we filed an application with the United States Patent and Trademark Office on March 28, 2017 as U.S. Application Serial No. 15/515,126 and entitled NON-DESTRUCTIVE ACOUSTIC METROLOGY FOR VOID DETECTION and claims priority to provisional U.S. Patent Application Serial No. 62/056,773, filed with the United States Patent and Trademark Office on September 29, 2014.

AND WHEREAS, Rudolph Technologies, Inc., a corporation organized and existing under and by virtue of the laws of the State of New Jersey, and having an office and place of business at One Rudolph Road, Flanders, New Jersey 07836 (hereinafter "Assignee") is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and 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 and in consideration of the sum of One Dollar and other good and valuable considerations, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and the right(s) to claim priority thereto, and in and to the application, all patent applications based upon said application, all divisions, continuations, 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 aforesaid 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.





IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_\_ day of \_\_\_\_\_, 2018.

\_\_\_\_\_  
Michael Kotelyanskii

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2018, before me personally appeared Michael Kotelyanskii to me known and known to me to be the person described in and who executed the foregoing instrument, and Michael Kotelyanskii duly acknowledged to me that Michael Kotelyanskii executed the same for the uses and purposes therein set forth.

[SEAL]

\_\_\_\_\_  
Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_\_ day of \_\_\_\_\_, 2018.

\_\_\_\_\_  
Robin Mair

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2018, before me personally appeared Robin Mair to me known and known to me to be the person described in and who executed the foregoing instrument, and Robin Mair duly acknowledged to me that Robin Mair executed the same for the uses and purposes therein set forth.

[SEAL]

\_\_\_\_\_  
Notary Public

\_\_\_\_\_, 2010.

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Priya Mukundhan

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2018, before me personally appeared Priya Mukundhan to me known and known to me to be the person described in and who executed the foregoing instrument, and Priya Mukundhan duly acknowledged to me that Priya Mukundhan executed the same for the uses and purposes therein set forth.

[SEAL]

Notary Public

\_\_\_\_\_, 2018.

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Xueping Ru

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2018, before me personally appeared Xueping Ru to me known and known to me to be the person described in and who executed the foregoing instrument, and Xueping Ru duly acknowledged to me that Xueping Ru executed the same for the uses and purposes therein set forth.

[SEAL]

Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_\_ day of \_\_\_\_\_, 2018.

Jonathan Cohen

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2018, before me personally appeared Jonathan Cohen to me known and known to me to be the person described in and who executed the foregoing instrument, and Jonathan Cohen duly acknowledged to me that Jonathan Cohen executed the same for the uses and purposes therein set forth.

[SEAL]

Notary Public

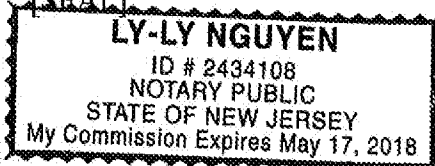
IN TESTIMONY WHEREOF, I have hereunto set my hand this 23<sup>rd</sup> day of April, 2018.

Timothy Kryman

STATE OF New Jersey )  
 ) ss.  
COUNTY OF Morris )

On this 23<sup>rd</sup> day of April, 2018, before me personally appeared Timothy Kryman to me known and known to me to be the person described in and who executed the foregoing instrument, and Timothy Kryman duly acknowledged to me that Timothy Kryman executed the same for the uses and purposes therein set forth.

[SEAL]



Notary Public