

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JOSEPH DANIEL TOBIASON	07/03/2017
AKIHIDE KIMURA	07/10/2017
SHU HIRATA	07/10/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MITUTOYO CORPORATION
<b>Street Address:</b>	20-1, SAKADO 1-CHOME, TAKATSU-KU
<b>City:</b>	KAWASAKI-SHI, KANAGAWA-KEN
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	213-8533
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15637750
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(206)682-6031
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<b>ATTORNEY DOCKET NUMBER:</b>	660051.493
<b>NAME OF SUBMITTER:</b>	SHOKO I. LEEK
<b>SIGNATURE:</b>	/Shoko Leek/
<b>DATE SIGNED:</b>	09/07/2017
<b>Total Attachments: 5</b>	
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WORLDWIDE ASSIGNMENT

WHEREAS, we,

Joseph Daniel Tobiason	c/o Micro Encoder Inc., 11533 NE 118 <sup>th</sup> St., Kirkland, WA 98034
Akihide Kimura	c/o Mitutoyo Corporation, 20-1 Sakado 1-Chome, Takatsuku, Kawasaki-shi, Kanagawa-ken, Japan 213-8533
Shu Hirata	c/o Mitutoyo Corporation, 20-1 Sakado 1-Chome, Takatsuku, Kawasaki-shi, Kanagawa-ken, Japan 213-8533

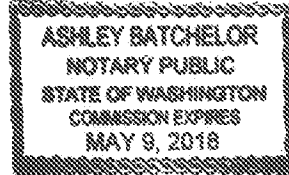
(hereinafter referred to as ASSIGNORS), having mailing addresses as listed above, are the joint inventors of an invention entitled "CONTAMINATION AND DEFECT RESISTANT OPTICAL ENCODER CONFIGURATION FOR PROVIDING DISPLACEMENT SIGNALS," as described and claimed in the specification for which an application for United States letters patent was filed on June 29, 2017, and assigned Application No. 15/637,750.

WHEREAS, Mitutoyo Corporation (hereinafter referred to as ASSIGNEE), a Japanese corporation having a place of business at 20-1 Sakado 1-Chome, Takatsuku, Kawasaki-shi, Kanagawa-ken, Japan 213-8533, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR hereby sells, assigns and transfers unto said ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions including any extensions or adjustments in term thereof and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, and including the right to sue and collect damages for past and present infringement of said letters patent; said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by

ASSIGNOR had this assignment, transfer and sale not been made. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNOR agrees to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

7/3/2017  
Date \_\_\_\_\_  
State of WA )  
County of King ) ss. Joseph Daniel Tobiason (Assignor)



I certify that I know or have satisfactory evidence that Joseph Daniel Tobiason is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

Dated 7/3/2017  
Signature of Notary Public [Signature]  
Printed Name Ashley Batchelor  
My appointment expires 5/9/2018

July 10, 2017  
Date

Akihide Kimura (Assignor)  
Akihide Kimura

I certify that I know or have satisfactory evidence that Akihide Kimura signed this instrument of his own free will, as a voluntary act for the uses and purposes mentioned in the instrument.

Date July 10, 2017

Signed at Kawasaki

Mikiyo Kawakami  
(Name of Witness)

Mikiyo Kawakami  
(Signature of Witness)

July 10, 2017  
Date

Shu Hirata (Assignor)  
Shu Hirata

I certify that I know or have satisfactory evidence that Shu Hirata signed this instrument of his own free will, as a voluntary act for the uses and purposes mentioned in the instrument.

Date July 10, 2017

Signed at Kawasaki

Mikiyo Kawakami  
(Name of Witness)

Mikiyo Kawakami  
(Signature of Witness)

Application No. 15/637,750

Mitutoyo Corporation

July 12, 2017  
Date

Haruo Tsuruoka (Assignee)  
(Signatory Signature)

Haruo Tsuruoka, Executive Officer in charge of Legal Affairs  
(Assignee Signatory Name, Title)

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