PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3252314

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHIN ODAJIMA	02/16/2015
YUKI SHODA	02/16/2015
MASAAKI TAKAGI	10/12/2014
YOSHIHIDE TONOGAI	10/07/2014

RECEIVING PARTY DATA

Name:	NIDEC COPAL CORPORATION
Street Address:	2-18-10 SHIMURA, ITABASHI-KU,
City:	TOKYO
State/Country:	JAPAN
Postal Code:	174-8550

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14501825

CORRESPONDENCE DATA

Fax Number: (212)704-5902

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: 212-704-6000

IPServicesNYC@troutmansanders.com Email:

TROUTMAN SANDERS LLP **Correspondent Name:**

Address Line 1: 405 LEXINGTON AVENUE, CHRYSLER BUILDING

Address Line 4: **NEW YORK, NEW YORK 10174-0700**

ATTORNEY DOCKET NUMBER:	243045.000007
NAME OF SUBMITTER:	ANGELINA STANTINI
SIGNATURE:	/Angelina Stantini/
DATE SIGNED:	03/05/2015

Total Attachments: 6

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> **PATENT** REEL: 035092 FRAME: 0747 503205699

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> PATENT REEL: 035092 FRAME: 0748

ASSIGNMENT

WHEREAS, I/We,

Shin ODAJIMA Yuki SHODA Masaaki TAKAGI Yoshihide TONOGAI

(collectively referred to as "ASSIGNOR"), have invented certain improvements in:

Vibration Actuator

\boxtimes	for which a U.S. Non-Provisional Patent Application was filed <u>September 30, 2014</u> and provided Serial No. <u>14/501,825</u> ;
	for which a PCT International Application was filed(date) and provided Application No. PCT/;
	OR
	which is filed concurrently herewith;
	and for which future applications may be filed, (collectively referred to as the "Application"),
	whereas the above-identified Application was made or authorized to be made by me/us, and elieve that I/we am/are the original inventor(s) or original joint inventor(s) of a claimed on in the Application, and
	whereas
	Nidec Copal Corporation
	2-18-10 Shimura, Itabashi-ku,

("ASSIGNEE") desires to purchase all of ASSIGNOR's rights in same;

Tokyo 174-8550 JAPAN

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and valuable considerations paid by the said ASSIGNEE, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR has and by these presents does hereby sell, assign, transfer and convey unto said ASSIGNEE all of ASSIGNOR's rights, title, and interest in and to said Application, including in and to any conventional, division, continuation, continuation-in-part, substitution, reissue, renewal, reexam, continued prosecution application ("CPA"), or request for continued examination ("RCE") thereof, and in and to all inventions and improvements thereon, (herein collectively referred to as "Related US Applications"), preparatory to obtaining Letters Patent of the

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United States therefore; and ASSIGNOR hereby requests the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States resulting from said Application and Related US Applications, to ASSIGNEE, for its interest and for the sole use and benefit of ASSIGNEE and its assigns and legal representatives.

For the same consideration, ASSIGNOR, by these presents does sell, assign, and transfer to ASSIGNEE all of ASSIGNOR's rights, title and interest in and to any foreign and international applications related to and/or seeking benefit of said Application and Related US Applications, and in and to all inventions and improvements thereon (herein collectively referred to as "Related Foreign Applications"), in and to any Letters Patent and similar protective rights granted on said Related Foreign Applications, and in and to the right to claim any applicable priority rights arising from or required for said Related Foreign Applications under the terms of any applicable conventions, treaties, statutes, or regulations, said Related Foreign Applications to be filed and issued in the name of ASSIGNEE or its designee, insofar as permitted by applicable law.

For the same consideration, ASSIGNOR agrees, without charge to ASSIGNEE, but at ASSIGNEE'S expense, to sign all lawful papers, execute said Application, Related US Applications and Related Foreign Applications, make all assignments and rightful oaths, assist in prosecution of said Application, Related US Applications and Related Foreign Applications, assist in prosecution of legal proceedings, and generally do everything reasonably possible to aid ASSIGNEE its successors, assigns, and nominees, to obtain and enforce proper protection for all said inventions and improvements in all countries throughout the world.

AND, for the same consideration, ASSIGNOR also hereby sells, assigns and transfers unto ASSIGNEE all of ASSIGNOR's rights and claims to sue for damages and other remedies with respect to any and all past infringement of all said Application, Related US Applications, and Related Foreign Applications, including said inventions and improvements which may have occurred before the date of this Assignment.

SIGNED this 16 day of Feb.	, 20 <u>/6</u> ;
Shin ODAJIMA Name	Shin Olajima Signature
,	
SIGNED this 6 day of Feb.	, 20 15 :
Yuki SHODA	Shoda Yuki
Name	Signature

TROUTMAN

ASSIGNMENT

WHEREAS, I/We,

Shin ODAJIMA Yuki SHODA Masaaki TAKAGI Yoshihide TONOGAI

(collectively referred to as "ASSIGNOR"), have invented certain improvements in:

Vibration Actuator

\boxtimes	for which a U.S. Non-Provisional Patent Application was filed <u>September 30, 2014</u> and provided Serial No. <u>14/501,825</u> ;
	for which a PCT International Application was filed (date) and provided Application No. PCT/; OR
	which is filed concurrently herewith;
	and for which future applications may be filed, (collectively referred to as the "Application") whereas the above-identified Application was made or authorized to be made by me/us, and elieve that I/we am/are the original inventor(s) or original joint inventor(s) of a claimed on in the Application, and
	whereas
	Nidec Copal Corporation 2-18-10 Shimura, Itahashi-ku.

("ASSIGNEE") desires to purchase all of ASSIGNOR's rights in same;

Tokyo 174-8550 JAPAN

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and valuable considerations paid by the said ASSIGNEE, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR has and by these presents does hereby sell, assign, transfer and convey unto said ASSIGNEE all of ASSIGNOR's rights, title, and interest in and to said Application, including in and to any conventional, division, continuation, continuation-in-part, substitution, reissue, renewal, reexam, continued prosecution application ("CPA"), or request for continued examination ("RCE") thereof, and in and to all inventions and improvements thereon, (herein collectively referred to as "Related US Applications"), preparatory to obtaining Letters Patent of the

TROUTMAN SANDERS

SIGNED this /2 day of October	, 20 / 4 1
Masaaki TAKAGI Name	Maron 12 Tolongia Signature
SIGNED this day of	; 20:
Yoshihide TONOGAI Name	Signature

'IROUIMAN SANDERS

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ASSIGNMENT

WHEREAS, I/We,

Shin ODAJIMA Yuki SHODA Masaaki TAKAGI Yoshihide TONOGAI

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Vibration Actuator

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for which a PCT International Application was filed(date) and provided Application No. PCT/;
OR
which is filed concurrently herewith;
and for which future applications may be filed, (collectively referred to as the "Application"),
whereas the above-identified Application was made or authorized to be made by me/us, and elieve that I/we am/are the original inventor(s) or original joint inventor(s) of a claimed on in the Application, and
whereas
Nidec Copal Corporation 2-18-10 Shimura, Itabashi-ku, Tokyo 174-8550 JAPAN

("ASSIGNEE") desires to purchase all of ASSIGNOR's rights in same;

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and valuable considerations paid by the said ASSIGNEE, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR has and by these presents does hereby sell, assign, transfer and convey unto said ASSIGNEE all of ASSIGNOR's rights, title, and interest in and to said Application, including in and to any conventional, division, continuation, continuation-in-part, substitution, reissue, renewal, reexam, continued prosecution application ("CPA"), or request for continued examination ("RCE") thereof, and in and to all inventions and improvements thereon, (herein collectively referred to as "Related US Applications"), preparatory to obtaining Letters Patent of the

TROUTMAN SANDERS

SIGNED this day of	; 20:
Maseaki TAKAGI	
Name	Signature
SIGNED this day of	October ,20 <u>14</u> :
Yoshihide TONOGAI	Yookihida Jonoga
Name	Signature/

TROUTMAN SANDERS

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RECORDED: 03/05/2015

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