

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4102949

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
YOSHIKAZU TANAKA	03/28/2014
TING GAO	11/11/2015
JOEL C. KENT	02/28/2014
JEFFREY T. HALLER	03/14/2014
DANIEL H. SCHARFF	02/28/2014
TIMOTHY O. AVERY	11/07/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ELO TOUCH SOLUTIONS, INC.
<b>Street Address:</b>	1033 MCCARTHY BLVD.
<b>City:</b>	MILPITAS
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95035
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15274295
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>Email:</b>	pdykstra@skgf.com, bthompson@skgf.com
<b>Correspondent Name:</b>	STERNE, KESSLER, GOLDSTEIN & FOX PLLC
<b>Address Line 1:</b>	1100 NEW YORK AVE.
<b>Address Line 4:</b>	WASHINGTON, D.C. 20005
<b>ATTORNEY DOCKET NUMBER:</b>	3450.0240003
<b>NAME OF SUBMITTER:</b>	PETER H. DYKSTRA
<b>SIGNATURE:</b>	/Peter H. Dykstra, Reg. no. 69,520/
<b>DATE SIGNED:</b>	10/19/2016
<b>Total Attachments: 7</b>	
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**ASSIGNMENT - WORLDWIDE**

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

**ELO TOUCH SOLUTIONS, INC.**  
1033 McCarthy Blvd.  
Milpitas, CA 95035

its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries in and to the invention in **"BEZEL-LESS ACOUSTIC TOUCH APPARATUS"**

as set forth in this United States Patent Application

- executed concurrently herewith
- executed on
- Application No. 14/055,797; filed October 16, 2013
- Application claims priority from Application No. 13/012,513, filed January 24, 2011, and Application No. 12/732,132, filed March 25, 2010, all applications listed above being hereinafter referred to as the "application(s)";

(We hereby authorize and request the Assignee and its attorney (Alston & Bird LLP) to insert above the application number and filing date of said application when known.)

said application for United States Letters Patent, including all divisional, renewal, substitute, continuation, nonprovisionals, continuation-in-parts, and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues, reexaminations, and extensions of Letters Patent granted for said inventions or upon said applications and every priority right that is or may be predicated upon or arise from said inventions, said applications, and said Letters Patent; said Assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right theretofore given, and that the undersigned will do all acts reasonably serving to ensure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in form and substance which may be requested by said Assignee, to furnish said Assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs,

models, samples or other physical exhibits which may embody said inventions, and to testify in any proceedings relating to said inventions, patent applications, and/or Letters Patent.

The undersigned hereby grant(s) an authorized representative of Assignee the power to insert in this Assignment any further identification that may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

This Assignment is deemed to be effective at least as early March 25, 2010 (the earliest priority date).

Mar. 28, 2014  
Date

Yoshi Tanaka  
Yoshikazu Tanaka

M. Tsumura  
First Witness

Mar. 28, 2014  
Date

Masahiro Tsumura  
Printed Name of First Witness

T. Okunishi  
Second Witness

Mar. 28, 2014  
Date

Tetsuya Okunishi  
Printed Name of Second Witness

11/11/2015  
Date

Ting Gao  
Ting Gao

Jian Wang  
First Witness

11/11/2015  
Date

Jian Wang  
Printed Name of First Witness

Quentin Polosky  
Second Witness

11/11/15  
Date

Quentin Polosky  
Printed Name of Second Witness

- OR -

State of \_\_\_\_\_ )

County of \_\_\_\_\_ )

I, \_\_\_\_\_, a Notary Public for said County and State, do hereby certify that Ting Gao personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the \_\_\_\_\_ day of \_\_\_\_\_, 2008.

(Official Seal)

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

My commission expires \_\_\_\_\_

Feb. 28, 2014  
Date

Joel C. Kent  
Joel C. Kent

Judy M. Maher  
First Witness

2/28/14  
Date

Judy M. Maher  
Printed Name of First Witness

M. Mercedes Cardallo  
Second Witness

2/28/14  
Date

M. MERCEDES CARDALLO  
Printed Name of Second Witness

- OR -

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ )

I, \_\_\_\_\_, a Notary Public for said County and State, do hereby certify that Joel C. Kent personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the \_\_\_\_\_ day of \_\_\_\_\_, 2008.

(Official Seal)

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

My commission expires \_\_\_\_\_

Date 3/14/14 Jeffrey T. Haller *Jeff Haller*

First Witness *Judy Maher* Date 3/14/14

Printed Name of First Witness JUDY MAHER

Second Witness *Mercedes Carballo* Date 3/14/2014

Printed Name of Second Witness MERCEDES CARBALLO

- OR -

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ )

I, \_\_\_\_\_, a Notary Public for said County and State, do hereby certify that Jeffrey T. Haller personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the \_\_\_\_\_ day of \_\_\_\_\_, 2008.

(Official Seal)

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

My commission expires \_\_\_\_\_

2/28/14  
Date

Daniel H Scharff  
Daniel H. Scharff

Judy m maher  
First Witness

2/28/14  
Date

JUDY M. MAHER  
Printed Name of First Witness

Loe Colmano  
Second Witness

2/28/14  
Date

M. MERCEDES CARBALLO  
Printed Name of Second Witness

- OR -

State of \_\_\_\_\_ )

County of \_\_\_\_\_ )

I, \_\_\_\_\_, a Notary Public for said County and State, do hereby certify that Daniel H. Scharff personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the \_\_\_\_\_ day of \_\_\_\_\_, 2008.

(Official Seal)

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

My commission expires \_\_\_\_\_



07 NOV 15

T. O. Avery

me Timothy O. Avery

*[Signature]*  
First Witness

11-7-15  
Date

Julie Scopazzi  
Printed Name of First Witness

*[Signature]*  
Second Witness

11/7/15  
Date

*[Signature]*  
Printed Name of Second Witness

- OR -

State of \_\_\_\_\_  
County of \_\_\_\_\_

I, \_\_\_\_\_, a Notary Public for said County and State, do hereby certify that Timothy O. Avery personally appeared before me this day and acknowledged the due execution of the foregoing instrument.

Witness my hand and official seal, this the \_\_\_\_\_ day of \_\_\_\_\_, 2008.

(Official Seal)

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

My commission expires \_\_\_\_\_