PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHUWEI SUN	06/26/2014
FRANCOIS-CHARLES DARY	06/20/2014
MARC ABOUAF	06/25/2014
PATRICK HOGAN	06/23/2014
QI ZHANG	06/25/2014

RECEIVING PARTY DATA

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Street Address:	45 INDUSTRIAL PLACE
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State/Country:	MASSACHUSETTS
Postal Code:	02461

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17144267

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ATTORNEY DOCKET NUMBER:	HCS-063BC2/127119-5063
NAME OF SUBMITTER:	MATTHEW T. CURRIE
SIGNATURE:	/MATTHEW T. CURRIE/
DATE SIGNED:	10/26/2022

Total Attachments: 6

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PATENT REEL: 061544 FRAME: 0466

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PATENT REEL: 061544 FRAME: 0467

PATENT APPLICATION Assignment

For good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned, co-inventors:

SHUWEI SUN

FRANCOIS-CHARLES DARY

MARC ABOUAF

PATRICK HOGAN

QI ZHANG

Who have created a certain invention for which an application for United States Letters Patent entitled COPPER-ALLOY CAPPING LAYERS FOR METALLIZATION IN TOUCH-PANEL DISPLAYS, was filed at the U.S. Patent and Trademark Office on June 5, 2014 and assigned U.S. Patent Application Serial No. 14/296,800.

Do hereby sell, assign and transfer to H.C. Starck Inc., a corporation having a place of business at 45 Industrial Place, Newton, MA 02461, its successors, assigns, and legal representatives, the full and exclusive right to said invention and said application and to any and all inventions described in said invention and said application and to any and all inventions described in said application for the United States, its territorial possessions and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States, its territorial possessions and all foreign countries; and in and to any and all provisionals, continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, and all other applications for Letters Patent relating thereto which have been or shall be filed in the United States, its territorial possession and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, act, and treaties, including all future conventions, unions, agreements, acts, and treaties;

Agree that H.C. Starck Inc., hereinafter referred to as Assignee, may apply for and receive Letters Patent for said invention and said inventions, hereinafter referred to as said invention, in its own name, in the United States, its territorial possessions, and all foreign countries; and that, when requested to carry out in good faith the intent and purpose of this assignment, at the expense of said Assignee, its successors, assigns and legal representatives, the undersigned will execute all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, execute all rightful oaths, assignments, powers of attorney and other papers, testify in any legal or quasi legal proceedings; communicate to said Assignee, its successors, assigns or legal representatives all facts known to the undersigned relating to said invention and the history thereof; and generally do everything possible which said Assignee, its successors, assigns, or legal representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said invention and for vesting title to said invention and all applications for patents on said invention in said Assignee, successors, assigns, or legal representatives; and

PATENT REEL: 061544 FRAME: 0468 Covenant with said Assignee, its successors, assigns, or legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same has herein expressed is possessed by the undersigned.

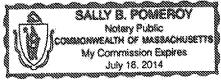
Assignor hereby grants the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document:

Bingham McCutchen LLP

Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

IN THE TESTIMONY WHEREOF we have hereunto set our signatures on the date indicated below.

		***************************************	de	el.
			SHUWI	EI SUN
Date: 66/26	/14			
United States of Amer	ica)		
State of	Mussachusetts) 88.1		
County of	Mussachusetts Muddlesex	Ĵ		
On this 26 personally came	day of Tune		20/4	
personally came SHUWEI SUN, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.				
			ally Ron	nuaz
		Notary	Public	
		enettes		



FRANCOIS-CHARLES DARY

United States of America

State of

Massachuse HS) ss.:

County of

On this

Personally came FRANCOIS-CHARLES DARY, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution

of the same.

BALLY B. NOBLECTY
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My Commission Expires
July 18, 2014

			سسسسس سندسسسس	Short
			MARC	ÁBOUAF
Date:	06/25/14			
United States of Am	erica)			
State of	Muscachucetts)	SS.:		
County of	Muddlesex			
On this	day of Var MARC ABOUA	<u>*</u>	0014	, before me
personally came	MARC ABOUA	F	, to me known t	o be the individual
described in and who	executed the foregoing in	strument,	and acknowledg	ed execution
of the same.			_	**
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		Notary	Public	
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		gulling.	July 18.	2014

SALLY 8. ONE WY

Notary Public

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My Controlsolich Expires

July 18, 2014

		PATRIC	K HOGAN
Date:	33-14		
United States of An	nerica)		
State of	Massackuse45):	\$8.0	
County of	Massachusetts): Yhiddlesey		
On this	day of Jone		, before me
personally came	PATRICK HOGA	in to me known	to be the individual
described in and who of the same.	o executed the foregoing ins	strument, and acknowledg	ed execution
VI ME SHILLS		5436) Marae
		Notary Public	7

		19-g
		QI ZHANĠ ⁾
Date: June 25th	2014	
United States of America	, ,)	
State of Massaca	1050 #15) 88.:	
County of Muda	huse#s ss.: Herry	
On this <u>Qf</u> day of		, 2014 , before me
personally came	QI ZHANG	, to me known to be the individual
described in and who executed the	he foregoing instrumer	
of the same.		
		Sally B. Romeray
	Nota	ry Public

