#### 504377344 05/22/2017

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4424039

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
KENICHI HARADA	05/18/2017
YOSHITADA NAMIKAWA	05/19/2017
TADAYOSHI FUKUDA	05/17/2017
YUKI MATSUNO	05/17/2017

### **RECEIVING PARTY DATA**

Name:	KEIWA INC
Street Address:	10-5, NIHONBASHI-KAYABA-CHO 2-CHOME, CHUO-KU
City:	TOKYO
State/Country:	JAPAN

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	15595445

#### CORRESPONDENCE DATA

Fax Number: (212)808-0844

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: 212-808-0700

Email: cbhamburg@nmmlaw.com C. BRUCE HAMBURG **Correspondent Name:** 

Address Line 1: NORRIS MCLAUGHLIN & MARCUS, P.A.

Address Line 2: 875 THIRD AVENUE, 8TH FLOOR Address Line 4: NEW YORK, NEW YORK 10022

ATTORNEY DOCKET NUMBER:	122026-43
NAME OF SUBMITTER:	C. BRUCE HAMBURG
SIGNATURE:	/C. BRUCE HAMBURG/
DATE SIGNED:	05/22/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).

## **Total Attachments: 4**

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**PATENT** REEL: 042447 FRAME: 0913 504377344

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PATENT REEL: 042447 FRAME: 0914

Norris McLaughlin & Marcus, P.A. Attorney Docket No.: 122026-43 COMBINATION DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING D

	APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT
Title of Invention	OPTICAL SHEET FOR LIQUID CRYSTAL DISPLAY DEVICE, BACKLIGHT UNIT FOR LIQUID CRYSTAL DISPLAY DEVICE AND PRODUCTION METHOD OF OPTICAL SHEET FOR LIQUID CRYSTAL DISPLAY DEVICE
As the below named inv	entor, I hereby declare that:
This declaration is direct	ed to: 图 The above-identified application, or

 $oxed{oxed{\square}}$  United States application  $\underline{\frac{15/595,445}{}}$  , filed on  $\underline{\frac{May\ 15,2017}{}}$ 

☐ PCT application number

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above,

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including further continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filling date of the continuation-in-part application

In consideration of One Dollar (\$1.00) in hand paid and other good and valuable considerations, the receipt of which is hereby acknowledged, I hereby assign and transfer to KEIWA INC., whose address is 10-5, Nihonbashi-Kayaba-cho 2-chome, Chuo-ku, Tokyo, Japan, a Japan Corporation (hereinafter named "Assignee"), its successors, legal representatives and assigns, the entire right, title and interest in and to said invention for Letters Patent of the United States, filed as said application and to the entire right, title and interest in any and all inventions, whether joint or sole, disclosed in said application for Letters Patent, and in any and all divisional or continuation or renewal applications that may be filed for United States Letters Patent for any and all of said inventions, and in and to any and all patents that may be granted on the foregoing applications and any reissue or extension thereof.

I hereby authorize and request the Commissioner of Patents to issue any and all of said Letters Patent to said Assignee.

For said consideration, I hereby agree upon the request of said Assignee, its successors, legal representatives or assigns, to execute any and all United States divisional, continuation and renewal applications for said invention, and any and all necessary oaths, supplemental oaths or declarations or supplemental declarations or affidavits relating thereto, and any application for the reissue or extension of any United States Letters Patent that may be granted upon said application that said Assignee, its successors, legal representatives or assigns may deem necessary or expedient.

For the said consideration, I further agree upon the request of said Assignee, its successors, legal representatives or assigns, in the event of said application or any division thereof, or Letters Patent issued thereon or any reissue or application for the reissue thereof, becoming involved in interference, to cooperate to the best of my ability with said Assignee, its successors, legal representatives or assigns in the matters of preparing and executing the Preliminary Statement and giving and producing evidence in support thereof, I hereby agree to perform upon such request, any and all affirmative acts necessary to obtain said Letters Patent and vest all rights therein hereby conveyed in said Assignee, its successors, legal representatives or assigns as fully and entirely as the same would have been held and enjoyed if this assignment and sale had not been made.

I hereby bind myself, my heirs, legal representatives, administrators, and assign properly to execute without further consideration, any and all applications, petitions, oaths, assignments or other papers and instruments which may be necessary in order to carry into full force and effect the sale, assignment and transfer hereby made, or intended or agreed to be made.

And for said considerations, I hereby assign to said Assignee, its successors, legal representatives and assigns, the entire right, title and interest in said invention or improvement for any and all foreign countries and agree upon the request of said Assignee, its successors, legal representatives or assigns to execute any and all documents that shall be required to be executed in connection with any and all applications for foreign Letters Patent therefor, including the prosecution thereof, and to execute any and all documents necessary to invest title in said foreign applications and patents in said Assignee, its successors, legal representatives or assions.

LEGAL NAME OF INVENTOR	
Inventor: Kenichi HARADA	Date: 5-18-2017
Signature: Kenishi Harada	,
Note: An application data sheet (PTO/AIA/14 or equivaler form. Use an additional PTO/SB/AIA01 form for each add	nt), including naming the entire inventive entity, must accompany this

Client's Ref.: 17FP-0726/US

Norris McLaughlin & Marcus, P.A.

Attorney Docket No.: 122026-43 COMBINATION DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT OPTICAL SHEET FOR LIQUID CRYSTAL DISPLAY DEVICE, BACKLIGHT UNIT FOR LIQUID Title of Invention CRYSTAL DISPLAY DEVICE AND PRODUCTION METHOD OF OPTICAL SHEET FOR LIQUID CRYSTAL DISPLAY DEVICE As the below named inventor, I hereby declare that: This declaration is directed to: E The above-identified application, or ☑ United States application 15/595,445 , filed on May 15, 2017 ☐ PCT application number\_\_\_\_\_ \_, filed on The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including further continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application In consideration of One Dollar (\$1.00) in hand paid and other good and valuable considerations, the receipt of which is hereby acknowledged, I hereby assign and transfer to KEIWA INC., whose address is 10-5, Nihonbashi-Kayaba-cho 2-chome, Chuo-ku, Tokyo, Japan, a Japan Corporation (hereinafter named "Assignee"), its successors, legal representatives and assigns, the entire right, title and interest in and to said invention for Letters Patent of the United States, filed as said application and to the entire right, title and interest in any and all inventions, whether joint or sole, disclosed in said application for Letters Patent, and in any and all divisional or continuation or renewal applications that may be filed for United States Letters Patent for any and all of said inventions, and in and to any and all patents that may be granted on the foregoing applications and any reissue or extension thereof. I hereby authorize and request the Commissioner of Patents to Issue any and all of said Letters Patent to said Assignee. For said consideration, I hereby agree upon the request of said Assignee, its successors, legal representatives or assigns, to execute any and all United States divisional, continuation and renewal applications for said invention, and any and all necessary oaths, supplemental oaths or declarations or supplemental declarations or affidavits relating thereto, and any application for the reissue or extension of any United States Letters Patent that may be granted upon said application that said Assignee, its successors, legal representatives or assigns may deem necessary or expedient. For the said consideration, I further agree upon the request of said Assignee, its successors, legal representatives or assigns, in the event of said application or any division thereof, or Letters Patent issued thereon or any reissue or application for the reissue thereof, becoming involved in interference, to cooperate to the best of my ability with said Assignee, its successors, legal representatives or assigns in the matters of preparing and executing the Preliminary Statement and giving and producing evidence in support thereof, I hereby agree to perform upon such request, any and all affirmative acts necessary to obtain said Letters Patent and vest all rights therein hereby conveyed in said Assignee, its successors, legal representatives or assigns as fully and entirely as the same would have been held and enjoyed if this assignment and sale had not been made. I hereby bind myself, my heirs, legal representatives, administrators, and assign properly to execute without further consideration, any and all applications, petitions, oaths, assignments or other papers and instruments which may be necessary in order to carry into full force and effect the sale, assignment and transfer hereby made, or intended or agreed to be made. And for said considerations, I hereby assign to said Assignee, its successors, legal representatives and assigns, the entire right, title and interest in said invention or improvement for any and all foreign countries and agree upon the request of said Assignee, its successors, legal representatives or assigns to execute any and all documents that shall be required to be executed in connection with any and all applications for foreign Letters Patent therefor, including the prosecution thereof, and to execute any and all documents necessary to invest title in said foreign applications and patents in said Assignee, its successors, legal representatives or assigns. **LEGAL NAME OF INVENTOR** Inventor: Yoshitada NAMIKAWA Date: 2017, 5, 19 Signature: 宝女川 憨 土 Note: An application data sheet (PTO/AIA/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an additional PTO/SB/AIA01 form for each additional inventor.

Client's Ref.: 17FP-0726/US

Norris McLaughlin & Marcus, P.A. Attorney Docket No.: 122026-43

COMBINATION DE	ECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT
Title of Invention	OPTICAL SHEET FOR LIQUID CRYSTAL DISPLAY DEVICE, BACKLIGHT UNIT FOR LIQUID CRYSTAL DISPLAY DEVICE AND PRODUCTION METHOD OF OPTICAL SHEET FOR LIQUID CRYSTAL DISPLAY DEVICE
As the below named inver	
This declaration is directed	d to: 图 The above-identified application, or
	$lacktriangle$ United States application $\underline{\frac{15/595,445}{}}$ filed on $\underline{\frac{\text{May }15,2017}{}}$ or
	☐ PCT application number, filed on
The above-identified ap	oplication was made or authorized to be made by me.
I believe that I am the o	original inventor or an original joint inventor of a claimed invention in the application.
imbusoument of flot filote	that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or than five (5) years, or both.
arrichaed by arry arriendin	nave reviewed and understand the contents of the above-identified application, including the claims, as ent specifically referred to above,
national or PCT internation	ly to disclose information which is material to patentability as defined in 37 CFR 1.56, including further ations, material information which became available between the filing date of the prior application and the nat filing date of the continuation-in-part application
In consideration of One Dollar (\$1.00) in hand paid and other good and valuable considerations, the receipt of which is hereby acknowledged, I hereby assign and transfer to KEIWA INC., whose address is 10-5, Nihonbashi-Kayaba-cho 2-chome, Chuo-ku, Tokyo, Japan, a Japan Corporation (hereinafter named "Assignee"), its successors, legal representatives and assigns, the entire right, title and interest in and to said invention for Letters Patent of the United States, filed as said application and to the entire right, title and interest in any and all inventions, whether joint or sole, disclosed in said application for Letters Patent, and in any and all divisional or continuation or renewal applications that may be filed for United States Letters Patent for any and all of said inventions, and in and to any and all patents that may be granted on the foregoing applications and any reissue or extension thereof.	
I hereby authorize and	request the Commissioner of Patents to issue any and all of said Letters Patent to said Assignee.
oaths, supplemental oaths reissue or extension of a	, I hereby agree upon the request of said Assignee, its successors, legal representatives or assigns, to ad States divisional, continuation and renewal applications for said invention, and any and all necessary or declarations or supplemental declarations or affidavits relating thereto, and any application for the any United States Letters Patent that may be granted upon said application that said Assignee, its neather that the property of the said Assignee, its neather that the property of the said Assignee, its neather that the property of the said Assignee and the said Assignee and the said Assignee are said application.
For the said consideration, I further agree upon the request of said Assignee, its successors, legal representatives or assigns, in the event of said application or any division thereof, or Letters Patent issued thereon or any reissue or application for the reissue thereof, becoming involved in interference, to cooperate to the best of my ability with said Assignee, its successors, legal representatives or assigns in the matters of preparing and executing the Preliminary Statement and giving and producing evidence in support thereof, I hereby agree to perform upon such request, any and all affirmative acts necessary to obtain said Letters Patent and vest all rights therein hereby conveyed in said Assignee, its successors, legal representatives or assigns as fully and entirely as the same would have been held and enjoyed if this assignment and sale had not been made.	
I hereby bind myself, m any and all applications, p full force and effect the sai	ny heirs, legal representatives, administrators, and assign properly to execute without further consideration, etitions, oaths, assignments or other papers and instruments which may be necessary in order to carry into le, assignment and transfer hereby made, or intended or agreed to be made.
And for said considerations, I hereby assign to said Assignee, its successors, legal representatives and assigns, the entire right, title and interest in said invention or improvement for any and all foreign countries and agree upon the request of said Assignee, its successors, legal representatives or assigns to execute any and all documents that shall be required to be executed in connection with any and all applications for foreign Letters Patent therefor, including the prosecution thereof, and to execute any and all documents necessary to invest title in said foreign applications and patents in said Assignee, its successors, legal representatives or assigns.	
LEGAL NAME OF INVE	
Inventor: _Tadayoshi FL	JKUDA Date: 20/7 / 05 / 17
Signature: Tadayosh	11 Futuda
Note: An application data st form. Use an additional PTC	neet (PTO/AIA/14 or equivalent), including naming the entire inventive entity, must accompany this D/SB/AIA01 form for each additional inventor.

Norris McLaughlin & Marcus, P.A. Attorney Docket No.: 122026-43

COMBINATION DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT OPTICAL SHEET FOR LIQUID CRYSTAL DISPLAY DEVICE, BACKLIGHT UNIT FOR LIQUID Title of Invention CRYSTAL DISPLAY DEVICE AND PRODUCTION METHOD OF OPTICAL SHEET FOR LIQUID CRYSTAL DISPLAY DEVICE As the below named inventor, I hereby declare that: This declaration is directed to: 图 The above-identified application, or  $\square$  United States application  $\underline{15/595,445}$  \_\_\_\_\_, filed on  $\underline{May\ 15,2017}$  \_\_or ☐ PCT application number\_\_\_\_ The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint Inventor of a claimed invention in the application. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. I hereby state that I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including further continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application In consideration of One Dollar (\$1.00) in hand paid and other good and valuable considerations, the receipt of which is hereby acknowledged, I hereby assign and transfer to KEIWA INC., whose address is 10-5, Nihonbashi-Kayaba-cho 2-chome, Chuo-ku, Tokyo, Japan, a Japan Corporation (hereinafter named "Assignee"), its successors, legal representatives and assigns, the entire right, title and interest in and to said invention for Letters Patent of the United States, filed as said application and to the entire right, title and interest in any and all inventions, whether joint or sole, disclosed in said application for Letters Patent, and in any and all divisional or continuation or renewal applications that may be filed for United States Letters Patent for any and all of said inventions, and in and to any and all patents that may be granted on the foregoing applications and any reissue or extension thereof. I hereby authorize and request the Commissioner of Patents to issue any and all of said Letters Patent to said Assignee. For said consideration, I hereby agree upon the request of said Assignee, its successors, legal representatives or assigns, to execute any and all United States divisional, continuation and renewal applications for said invention, and any and all necessary oaths, supplemental oaths or declarations or supplemental declarations or affidavits relating thereto, and any application for the reissue or extension of any United States Letters Patent that may be granted upon said application that said Assignee, its successors, legal representatives or assigns may deem necessary or expedient. For the said consideration, I further agree upon the request of said Assignee, its successors, legal representatives or assigns, in the event of said application or any division thereof, or Letters Patent issued thereon or any reissue or application for the reissue thereof, becoming involved in interference, to cooperate to the best of my ability with said Assignee, its successors, legal representatives or assigns in the matters of preparing and executing the Preliminary Statement and giving and producing evidence in support thereof, I hereby agree to perform upon such request, any and all affirmative acts necessary to obtain said Letters Patent and vest all rights therein hereby conveyed in said Assignee, its successors, legal representatives or assigns as fully and entirely as the same would have been held and enjoyed if this assignment and sale had not been made. I hereby bind myself, my heirs, legal representatives, administrators, and assign properly to execute without further consideration, any and all applications, petitions, oaths, assignments or other papers and instruments which may be necessary in order to carry into full force and effect the sale, assignment and transfer hereby made, or intended or agreed to be made. And for said considerations, I hereby assign to said Assignee, its successors, legal representatives and assigns, the entire right, title and interest in said invention or improvement for any and all foreign countries and agree upon the request of said Assignee, its successors, legal representatives or assigns to execute any and all documents that shall be required to be executed in connection with any and all applications for foreign Letters Patent therefor, including the prosecution thereof, and to execute any and all documents necessary to invest title in said foreign applications and patents in said Assignee, its successors, legal representatives or assigns. LEGAL NAME OF INVENTOR Date: 2017. 5, 17 Inventor: Yuki MATSUNO Signature: July Materno Note: An application data sheet (PTO/AIA/14 or equivalent), including naming the entire inventive entity, must accompany this form. Use an additional PTO/SB/AIA01 form for each additional inventor.

> PATENT REEL: 042447 FRAME: 0918

RECORDED: 05/22/2017