## 502900225 07/21/2014

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2946822

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
TOSHIHIKO IWASAKA	07/07/2014
MAKOTO HIRAKAWA	07/13/2014

### **RECEIVING PARTY DATA**

Name:	MITSUBISHI ELECTRIC CORPORATION		
Street Address:	7-3, MARUNOUCHI 2-CHOME, CHIYODA-KU,		
City:	TOKYO		
State/Country:	JAPAN		
Postal Code:	100-8310		

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

Property Type	Number
Application Number:	14336410

#### **CORRESPONDENCE DATA**

Fax Number:

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:** 703 390 9051

**Email:** info@sbpatentlaw.com

Correspondent Name: STUDEBAKER & BRACKETT PC Address Line 1: 12700 SUNRISE VALLEY DRIVE

Address Line 2: SUITE 102

Address Line 4: RESTON, VIRGINIA 20191

ATTORNEY DOCKET NUMBER:	005700-ME0113	
NAME OF SUBMITTER:	DONALD R. STUDEBAKER	
SIGNATURE:	/Donald R. Studebaker/	
DATE SIGNED:	07/21/2014	

**Total Attachments: 4** source=DECS#page1.tif source=DECS#page2.tif source=DECS#page3.tif source=DECS#page4.tif

PATENT REEL: 033353 FRAME: 0428

502900225



Attorney	Docket	No.	
*			Annum Manager and Annum Manage

# COMBINED DECLARATION (37 CFR 1.63) AND ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

Title of Invention: THIN FILM TRANSISTOR ARRAY SUBSTRAT	TE AND MANUFACTURING METHOD THEREOF,
AND LIQUID CRYSTAL DISPLAY DEVICE AN	IN SSANI FACTIONIC SETURN TURBERS
The state of the s	www.nornana.arinopinencor
私は、以下に記名された発明者として、ここに下記の通り 宣言する:	As a below named inventor, I hereby declare that
本宣言書は、以下の出願に対するものである;	This declaration is directed to:
<ul><li>□ 添付された出額、あるいは、</li><li>□ 米国出額番号またはPCT国際出額番号は、</li><li>□ であり、且つ</li><li>の日に出額された由額(該当する)</li></ul>	The attached application, or United States application or PCT international application number
場合) 上記出願書(明細書及び図面)は、私が作成したもの	
か、あるいは私がその作成を許可したものである。	The above-identified application was made or authorized to be made by me.
私は、本米国出願の請求範囲で記載された発明に対する原発明者であると信じている。	I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
私は、ここでの宣誓または陳述において故意に偽りを述べた場合、合衆国法典第18巻第1001条に基づき、罰金あるいは5年以下の懲役、または、両方の懲罰を受けることを	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.
謎める。	STATEMENT OF ACCURATE TRANSLATION IN ACCORDANCE WITH 37 CFR 1.69(b):
	The Declaration and Assignment for Patent and Design Applications is an accurate translation of the corresponding English language Declaration and Assignment for Patent and Design Applications
	Signature:
	Date: <u>11/15/2012</u>



WHEREAS the undersigned, hereinafter referred to as the assignor, has invented a certain improvement relating to the above identified application.
The inventor declaration for said application is combined herewith.
[X] said application to be filed in the United States Patent and Trademark Office;
[ ] said application having been filed in the United States Patent and Trademark Office on, authorization being hereby given to the practitioners associated with <u>STUDEBAKER &amp; BRACKETT PC's CUSTOMER NUMBER 78198</u> , to insert here in parentheses (Application Serial No. ) the application serial number of said application when known;
[ ] said application having been filed under the Patent Cooperation Treaty on, as Serial No, the United States of America being designated.
AND WHEREAS Mitsubishi Electric Corporation of 7-3. Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008310. Japan hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof;
NOW, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.
AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and protongations thereof.
AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.
The undersigned hereby grants the law firm of STUDEBAKER & BRACKETT PC the power to insert on the Assignment portion of this combined Declaration and Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.
This combined Declaration and Assignment has been executed by the undersigned on the date opposite the undersigned name.
発明者长名/ Legal Name of Inventor Toshihiko IWASAKA
発明者の署名/ Signature E 付/ Date
Toshihiko IWASAKA July 7,2014



Attomey	Docket	No.	

# COMBINED DECLARATION (37 CFR 1.63) AND ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

Title of Invention:	
THIN FILM TRANSISTOR ARRAY SUBSTRAT AND LIQUID CRYSTAL DISPLAY DEVICE AN	TE AND MANUFACTURING METHOD THEREOF, ID MANUFACTURING METHOD THEREOF
私は、以下に記名された発明者として、ここに下記の通り 宣言する:	As a below named inventor, I hereby declare that:
本宣言書は、以下の出額に対するものである:	This declaration is directed to:
<ul><li> 添付された由願、あるいは、</li><li> 米国出願番号またはPCT国際出願番号は、</li><li> であり、且つ</li><li> の日に由願された出願(該当する場合)</li></ul>	The attached application, or United States application or PCT international application number
上記由顧書(明細書及び図面)は、私が作成したものか、あるいは私がその作成を許可したものである。	The above-identified application was made or authorized to be made by me.
私は、本米国出願の請求範囲で記載された発明に対する原発明者であるか、或いは、原共同発明者であると信じている。	I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
私は、ここでの宣誓主たは陳述において故意に偽りを述べた場合、合衆国法典第18巻第1001条に基づき、罰金あるいは5年以下の懲役、または、両方の懲罰を受けることを認める。	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.  STATEMENT OF ACCURATE TRANSLATION IN ACCORDANCE WITH 37 CFR 1.69(b):
	The Declaration and Assignment for Patent and Design Applications is an accurate translation of the corresponding English language Declaration and Assignment for Patent and Design Applications
	Signature: Date: 11/15/2012
	·



**RECORDED: 07/21/2014** 

Attomev	Docket No	,
		***************************************

WHEREAS the undersigned, hereinafter referred to as the assignor, has invented a certain improvement relating to the above identified application.
The inventor declaration for said application is combined herewith.
[X] said application to be filed in the United States Patent and Trademark Office;
[ ] said application having been filed in the United States Patent and Trademark Office on, authorization being hereby given to the practitioners associated with <u>STUDEBAKER &amp; BRACKETT PC's CUSTOMER NUMBER 78198</u> , to insert here in parentheses (Application Serial No) the application serial number of said application when known;
[ ] said application having been filed under the Patent Cooperation Treaty on, as Serial No, the United States of America being designated.
AND WHEREAS Mitsubishi Electric Corporation of 7-3. Marunouchi 2-chome, Chivoda-ku, Tokyo 1008310, Japan , hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof.
NOW, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.
AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigne, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof.
AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.
The undersigned hereby grants the law firm of STUDEBAKER & BRACKETT PC the power to insert on the Assignment portion of this combined Declaration and Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.
This combined Declaration and Assignment has been executed by the undersigned on the date opposite the undersigned name.
務明者充名/ Legal Name of Inventor Makoto HIRAKAWA
発明者の著名/ Signature 目 付/ Date
Makata HIRAKAWA July 13,2014

Page 2 of 2