

09-25-2009

PATENTS ONLY



103575212

INVENT AND TRADEMARK OFFICE

APPLICANT(S) : Ke Zhang et al.

FOR : **A LIQUID CRYSTAL DEVICE AND METHODS THEREOF**

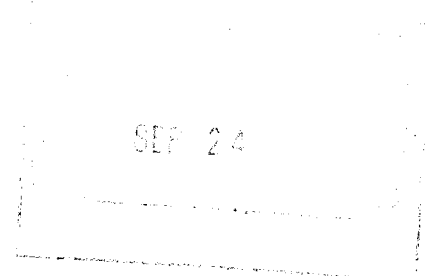
SERIAL NO. : 12/459,153

FILED : June 26, 2009

ART UNIT : 2871

CONFIRMATION NO. : 4180

ATTORNEY DOCKET NO. : KNST 2 00066



9-24-09

ASSIGNMENT RECORDATION FORM COVER SHEET

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| 1. | Name of Conveying Party(ies) | Execution Date(s): |
| | Ke Zhang | September 15, 2009 |
| | Philip J. Bos | September 16, 2009 |
| | Robert J. Twieg | September 15, 2009 |
| | Na Liu | September 15, 2009 |

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40.00 OF

2. Name and address of Receiving Party(ies):

**Kent State University
East Main and Lincoln Streets
Kent, Ohio 44242
USA**

3. Nature of conveyance:

- | | |
|--|---|
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4. Application or patent number(s):

- This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

12/459,153

5. Address to whom correspondence concerning document should be mailed:

CUSTOMER NUMBER 27885

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00

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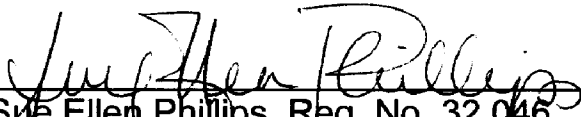
8. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

9. Total number of pages including cover sheet, attachments, and documents enclosed: 9.

Respectfully submitted,

Fay Sharpe LLP

9-21-09
Date


Julie Ellen Phillips, Reg. No. 32,046
The Halle Building, 5th Floor
1228 Euclid Avenue
Cleveland, Ohio 44115-1843
216.363.9000

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Date: September 21, 2009

Name: Kara L. Krist

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We, the undersigned, **Ke Zhang** of 2388 Becket Circle, Stow, Ohio 44224; **Philip J. Bos** of 6806 Windsor Road, Hudson, Ohio 44236; **Robert J. Twieg** of 1223 Woodhill Drive, Kent, Ohio 44240; and **Na Liu** of 9L Westview Drive, Bloomfield, CT 06002 ("Inventor(s)") who has/have created a certain invention for which a U.S. Patent Application has been

- executed concurrently herewith
 executed on
 filed June 26, 2009, and assigned Application Serial No. 12/459,153

and is entitled

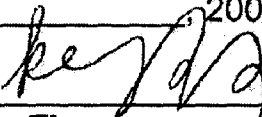
A LIQUID CRYSTAL DEVICE AND METHODS THEREOF

hereby sell, assign and transfer to **Kent State University**, ("Assignee"), a State University duly organized and existing under and by virtue of the laws of the State of Ohio, having a place of business at **East Main and Lincoln Streets, Kent, Ohio 44242**, its successors, assigns, nominees or other legal representatives, the full, exclusive, entire worldwide rights, title and interest in, to, and under said invention as described and claimed in said application, including any provisional application(s) from which it claims priority, the same to be held and enjoyed by Assignee for its own use and enjoyment, and for the use and enjoyment of its successors, assigns, nominees, or other legal representatives, to the end of the term or terms for which said Letters Patent are or may be granted, reissued, or extended, as fully and entirely as the same would have been held and enjoyed by Inventor(s) if this assignment and sale had not been made; all of the entire rights, title and interest in and to said invention and said application, and all original and reissued patents granted for said invention, and all divisions, reissues, continuations-in-part, and continuations of said application, including the subject matter of any and all claims which may be obtained in every patent, and the right, where such right can be legally exercised, in Assignee's own name to apply for and obtain patents in countries foreign to the United States, including the full right to claim for any such application the benefits of the International Convention and the Patent Cooperation Treaty as fully and entirely as Inventor(s) could have done if the foreign application had been filed in the names of the Inventor(s), and the entire interest in any Letters Patent which may be granted on any such application in such foreign countries, and Inventor(s) authorize(s) and request(s) the Commissioner of Patents of the United States, and any official of any country or countries foreign to the United States whose duty is to issue patents on applications as aforesaid, to issue the said Letters Patent to Assignee, its successors, assigns, nominees, or other legal representatives, as Assignee and owner of the said entire rights, and Inventor(s) covenant(s) that Inventor(s) has/have the full right to convey the said entire interest herein assigned and that Inventor(s) has/have not executed and will not execute any agreement in conflict herewith, and Inventor(s) will communicate to Assignee, its successors, assigns, nominees, or other legal representatives all facts known to

Inventor(s) respecting said invention, whenever requested, and testify in any legal proceedings, sign all lawful papers, execute and deliver all divisional, continuing, and reissue applications, make all rightful oaths or declarations, and do all lawful acts requisite for the application for such divisional, continuing, or reissue applications, or the procuring thereof, and that if and when Assignee, its successors, assigns, nominees, or other legal representatives desire to file a disclaimer relating thereto, Inventor(s) will, upon request, sign and deliver all lawful papers requisite for the filing of such disclaimer; and

Inventor(s) further covenant(s) and agree(s) that Inventor(s) will, at any time upon request, do everything possible to aid Assignee, its successors, assigns, nominees, or other legal representatives, either in the name of Inventor(s) or Assignee, to apply for, obtain, and enforce proper patent protection for said invention in all countries, according to the International Convention and the Patent Cooperation Treaty, and all the laws and treaties in force, all without further consideration but at the expense of Assignee, its successors, assigns, nominees, or other legal representatives.

Signed at the City of Weslake State of Ohio
on this 15th day of September 2009.



Ke Zhang

State of _____)
County of _____) ss:

On this 15th day of September, 2009 before me personally came Ke Zhang, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Notary Public

Seal
HEATHER KOVACH
Notary Public, State of Ohio, Medina County
My commission expires Dec. 23, 2013

Signed at the City of Kent State of Ohio
on this 16th day of September, 2009.

Philip J. Bos
Philip J. Bos

State of Ohio)
County of Portage)ss:
)

On this 16th day of September, 2009 before me personally came Philip Bos to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Brenda L. Decker
Notary Public

Seal

Brenda L. ~~Bos~~-Decker
Notary Public, State of Ohio
My Commission expires March 13, 2012

Signed at the City of Kent State of Ohio
on this 15th day of September, 2009.

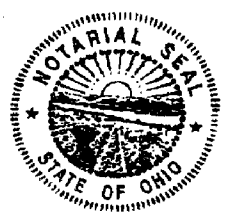
Robert J. Twieg
Robert J. Twieg

State of OHIO)
County of PORTAGE)ss:
)

On this 15th day of September, 2009 before me personally came ROBERT J. TWIEG to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Charmaine Streharsky
Notary Public

Seal



Charmaine Streharsky
Resident Summit County
Notary Public, State of Ohio
My Commission Expires:
25 May 2011

Signed at the City of Bloomfield State of Connecticut
on this 15 day of September, 2009.

Na Liu

Na Liu

State of Connecticut

)
)ss: Bloomfield

County of Hartford

)

On this 15th day of September, 2009 before me personally came Na Liu, to me known to be*the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

DeLores Lamar Williams
Notary Public

DELORES LAMAR WILLIAMS
NOTARY PUBLIC
MY COMMISSION EXPIRES SEP. 30, 2011

Seal

* or satisfactorily proven