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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

CHIEN, LIANG-CHY
BORSHCH, VOLODYMYR
HWANG, JEOUNG-YEON

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) 07/23/12; 07/23/12; 07/31/12

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

Name: KENT STATE UNIVERSITY

Internal Address: _____

Street Address: EAST MAIN and LINCOLN STREETS

City: KENT

State: OH

Country: USA Zip: 44242

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

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

A. Patent Application No.(s)

13/578,316

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: DANIEL J. HUDAK, JR.

Internal Address: HUDAK, SHUNK & FARINE CO LPA

Street Address: 2020 Front Street, Suite 307

City: Cuyahoga Falls

State: OHIO Zip: 44221

Phone Number: 330-535-2220

Fax Number: 330-535-1435

Email Address: DHUDAKJR@HSF-IPLAW.COM

6. Total number of applications and patents involved: 1

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

- ☐ Authorized to be charged by credit card
☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 08-3150

Authorized User Name Daniel J. Hudak, Jr.

9. Signature:

Daniel J. Hudak, Jr.
Signature

8/16/12
Date

Daniel J. Hudak, Jr.
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 6

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1460, Alexandria, V.A. 22313-1450

PATENT

(Attorney Docket No.: KENT-Y-BCT-US)

700491500

REEL: 028794 FRAME: 0838

CH \$40.00 083150 13578316

ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned by the Assignee,

KENT STATE UNIVERSITY,

a State University of Ohio, organized under the laws of the State of Ohio, domiciled at

East Main and Lincoln Streets, Kent, Ohio 44242

U.S.A., receipt whereof is hereby acknowledged, the undersigned by these presents hereby sells, assigns, transfers, and sets over unto said assignee the entire right, title and interest in and to the invention or improvement in

"FAST-SWITCHING SURFACE-STABILIZED LIQUID CRYSTAL CELLS"

said invention being fully described and/or claimed in the application for Letters Patent of the United States of America, executed this date(s), as well as any divisional, continuing, reissue, reexamination, or other patent applications, in and for the United States and all foreign countries, the same to be held and enjoyed by said assignee, its successors, assigns or other legal representatives, to the full ends of the terms for which all Letters Patent therefor may be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment and sale had not been made.

AND SAID ASSIGNEE IS HEREBY AUTHORIZED to make application for and to receive Letters Patent for said invention in any of said countries at its election.

AND BY THIS COVENANT the undersigned will execute or procure any further necessary assurance of title to said invention and Letters Patent; and at any time, upon the request of said assignee, will execute and deliver any and all papers that may be necessary or desirable to perfect the title to said invention or any Letters Patent which may be granted therefor to said Assignee, its successors, assigns or other legal representatives, and, upon the request of said assignee, will execute any divisional, continuing, reissue, reexamination, or other applications for patents for said invention, in any country, and will make all rightful oaths and do all lawful acts requisite for aiding, procuring, or maintaining the same or for aiding therein.

AND THE COMMISSIONER of Patents is hereby authorized and requested to issue any and all Letters Patent to the United States for said invention, to said assignee.

Attorney Docket No.: KENT-V-PCT-US (KSU371)

SIGNED and sealed as indicated adjacent our signatures.

Liang Chy Chien
LIANG-CHYCHHEN

23/07/2012
Date

Location: Kent State University

Witnessed Janet Cash

Name: JANET CASH
(Printed or Typed)

7/23/12
Date

Volodymyr Borshch
VOLODYMYR BORSHCH

23/07/2012
Date

Location: Kent State University

Witnessed Janet Cash

Name: Janet CASH
(Printed or Typed)

7/23/12
Date

JEOUNG YEON HWANG

Date

Location: _____

Witnessed _____

Name: _____
(Printed or Typed)

Date

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said invention being fully described and/or claimed in the application for Letters Patent of the United States of America, executed this date(s), as well as any divisional, continuing, reissue, reexamination, or other patent applications, in and for the United States and all foreign countries, the same to be held and enjoyed by said assignee, its successors, assigns or other legal representatives, to the full ends of the terms for which all Letters Patent therefor may be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment and sale had not been made.

AND SAID ASSIGNEE IS HEREBY AUTHORIZED to make application for and to receive Letters Patent for said invention in any of said countries at its election.

AND BY THIS COVENANT the undersigned will execute or procure any further necessary assurance of title to said invention and Letters Patent; and at any time, upon the request of said assignee, will execute and deliver any and all papers that may be necessary or desirable to perfect the title to said invention or any Letters Patent which may be granted therefor to said Assignee, its successors, assigns or other legal representatives, and, upon the request of said assignee, will execute any divisional, continuing, reissue, reexamination, or other applications for patents for said invention, in any country, and will make all rightful oaths and do all lawful acts requisite for aiding, procuring, or maintaining the same or for aiding therein.

AND THE COMMISSIONER of Patents is hereby authorized and requested to issue any and all Letters Patent to the United States for said invention, to said assignee.

SIGNED and sealed as indicated adjacent our signatures.

LIANG-CHY CHIEN

Date

Location: _____

Witnessed _____

Name: _____
(Printed or Typed)

Date

VOLODYMYR BORSHCH

Date

Location: _____

Witnessed _____

Name: _____
(Printed or Typed)

Date



JEOUNG YEON HWANG

July 31, 2012

Date

Location: 1211, ITBT Building, Hanyang Univ., Haengdang 1-dong, Seongdong-gu, Seoul, 133-791 Korea

Witnessed  _____

Name: LEE, YOU-JIN
(Printed or Typed)

31/07/12

Date