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PATENTS ONLY

09/913253

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Satyendra Kumar and Jae-Hoon Kim

08/10/01

Additional name(s) of conveying party(ies) attached?

Yes

No

2. Name and address of receiving party(ies):

Name: Kent State University

Internal Address:

Street Address: East Main and Lincoln Streets

City: Kent State: Ohio ZIP: 44224

3. Nature of conveyance:

Assignment

Merger

Security Agreement

Change of Name

Other

Additional name(s) & address(es) attached?

Yes

No

10-15-2001



101872760

Execution Date: August 9, 2001

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

If this document is being filed together with a new application, the execution date of the application is: August 9, 2001

09/913253

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Ray L. Weber

Internal Address: Renner, Kenner, Greive, Bobak, Taylor & Weber

Street Address: First National Tower, Fourth Floor

City: Akron State: OH ZIP: 44308-1456

6. Total Number of applications and patents involved:

1

7. Total fee (37 CFR 3.41): \$ 40.00

Enclosed

Authorized to be charged to deposit account

8. Deposit Account Number:

18-0987

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

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.

Andrew B. Morton
Name of Person Signing

Andrew B Morton
Signature

August 10, 2001
Date

Total number of pages including cover sheet, attachments, and document: 3

Mail documents to be recorded with required cover sheet information to:

Director of Patent and Trademark Office
Box Assignments
Washington, D.C. 20231

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, East Main and Lincoln Streets, a State University duly organized and existing under and by virtue of the laws of the State of Ohio, receipt whereof is hereby acknowledged, the undersigned by these presents hereby sold, assigned, transferred and set over unto the said assignee the entire right, title and interest in and to the invention or improvement in

Electrically Controllable Liquid Crystal Microstructures

said invention being fully described and/or claimed in the application for Letters Patent of the United States of America, which was filed on February 16, 2000, and bears PCT Serial No. PCT/US00/03866, 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 of 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 and at the expense 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 Patents which may be granted therefor in said Assignee, its successors, assigns or other legal representatives, and upon the request and at the expense of said assignee, will execute any additional or divisional applications for patents for said invention, or any part or parts thereof, and for the reissue of said Letters Patents to be granted therefor, and will make all rightful oaths and do all lawful acts requisite for procuring the same or for aiding therein without further compensation, but at the expense of said assignee, its successors, assigns or other legal representatives.

And The Commissioner of Patents is Hereby Authorized and Requested to issue any and all Letters patent of the United States for said invention, to said assignee.

Signed and sealed this 9th day of August, 2001.
Witness:

Chris Kurtz

Satyendra Kumar
Satyendra Kumar

Signed and sealed this _____ day of _____, 2001.
Witness:

Jae-Hoon Kim

Attorney Docket No. KSU.P0193

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, East Main and Lincoln Streets, a State University duly organized and existing under and by virtue of the laws of the State of Ohio, receipt whereof is hereby acknowledged, the undersigned by these presents hereby sold, assigned, transferred and set over unto the said assignee the entire right, title and interest in and to the invention or improvement in

Electrically Controllable Liquid Crystal Microstructures

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And Said Assignee is Hereby Authorized to make application for and to receive Letters Patent for said invention in any of said countries of 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 and at the expense 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 Patents which may be granted therefor in said Assignee, its successors, assigns or other legal representatives, and upon the request and at the expense of said assignee, will execute any additional or divisional applications for patents for said invention, or any part or parts thereof, and for the reissue of said Letters Patents to be granted therefor, and will make all rightful oaths and do all lawful acts requisite for procuring the same or for aiding therein without further compensation, but at the expense of said assignee, its successors, assigns or other legal representatives.

And The Commissioner of Patents is Hereby Authorized and Requested to issue any and all Letters patent of the United States for said invention, to said assignee.

Signed and sealed this ____ day of _____, 2001.

Witness:

Satyendra Kumar

Signed and sealed this 16th day of July, 2001.

Witness:

Hyekyung Won
Hyekyung Won

Jae-Hoon Kim
Jae-Hoon Kim

Attorney Docket No. KSU.P0193