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To the Honorable Commissioner of P

102025399

Attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Shinichi NOGAWA

3-6-02

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

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

Name: Seiko Instruments Inc.

Internal Address: \_\_\_\_\_

Street Address: 8, Nakase 1-chome,Mihama-ku, Chiba-shiCity: Chiba State: Japan ZIP: \_\_\_\_\_Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other \_\_\_\_\_Execution Date: February 18, 2002

## 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: \_\_\_\_\_

A. Patent Application No.(s) 09/351,507

B. Patent No.(s) \_\_\_\_\_

Additional numbers attached? ☐ Yes ☒ No

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

Name: Bruce L. Adams

Internal Address: \_\_\_\_\_

Street Address: Adams & Wilks50 Broadway-31stFloorCity: New York State: NY ZIP: 100046. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41).....\$ 40.00☒ Enclosed☒ Authorized to be charged to deposit account  
any deficiency in enclosed fee

## 8. Deposit account number:

01-0268

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

03/20/2002 DBYRNE 00000007 09251507

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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.

Bruce L. Adams

Name of Person Signing

Signature

February 21, 2002

Date

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

## ASSIGNMENT

WHEREAS, I, Shinichi Nogawa, residing at c/o Seiko Instruments Inc., 8, Nakase 1-chome, Mihama-ku, Chiba-shi, Chiba, Japan have invented new and useful improvements in LIQUID CRYSTAL DISPLAY CIRCUIT USING PULSE WIDTH AND FRAME MODULATION TO PRODUCE GRAYSCALE WITH CONTINUITY

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for which I have prepared an application for Letters Patent of the United States of America;

AND WHEREAS, Seiko Instruments Inc., located and doing business at 8, Nakase 1-chome, Mihama-ku, Chiba-shi, Chiba, Japan, is desirous of acquiring an interest therein and in the Letters Patent to be obtained therefor;

NOW, THEREFORE, be it known by all whom it may concern, that for and in consideration of Ten Dollars (\$10.00) and other good and valuable consideration to me in hand paid, the receipt of which is hereby acknowledged, I have assigned, sold and transferred and by these presents do hereby assign, sell and transfer unto the said Seiko Instruments Inc. for the territory of the United States of America, my entire right, title and interest in and to the said invention, and in and to the said application, prepared and executed by me on September 3, 1999, filed July 12, 1999, Serial No. 09/351,507, preparatory to obtaining Letters Patent thereon and in and to any and all divisions, reissues and continuations thereof, and in and to any Letters Patent that may be granted thereon; said invention, application and Letters Patent to be held and enjoyed by the said Seiko Instruments Inc., its legal representatives and assigns, as fully and entirely as the same would have been held by me had this assignment, sale and transfer not been made.

AND, I hereby covenant and agree that I will at any time upon the request and at the expense of said assignee execute and deliver any and all papers and do all lawful acts that may be necessary or desirable to perfect the title to said invention and to obtain Letters Patent therefor, and I hereby authorize and request the Honorable Commissioner of Patents and Trademarks to issue the said Letters Patent to the said Seiko Instruments Inc. in accordance with this assignment.

Executed this 18th day of February, 2002 at

\_\_\_\_\_.

Witness:

Masaki Hori  
Masaki Hori

Shinichi-Nogawa (L.S.)  
Shinichi Nogawa

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