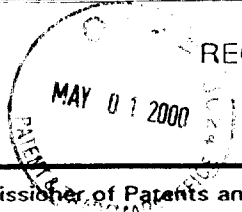


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Docket



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Documents or copy thereof.

To the Honorable Commissioner of Patents and Trademark

1. Name of conveying party(ies):

Craig Tombling; Michael Geraint Robinson; Nicholas Mayhew; Tomoaki Kuratate

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

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
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Execution Date: April 14, 2000

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

Name: Sharp Kabushiki Kaisha

Street Address: 22-22, Nagaikecho, Abeno-ku

City: Osaka State: Japan ZIP: 545-8522

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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)  
09/489,078

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: Neil A. DuChes, Esq.

Internal Address: RENNER, OTTO,

BOISSELLE & SKLAR, P.L.L.

Street Address: 1621 Euclid Ave., 19th Floor

City: Cleveland State: Ohio ZIP: 44115

6. Total number of applications and patents involved:

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

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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.

Neil A. DuChes

Name of Person Signing

Signature

5-28-00

Date

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

## ASSIGNMENT

WHEREAS, the ASSIGNOR(S), being the following named inventor(s):

Craig TOMBLING  
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Nicholas MAYHEW  
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Oxford OX2 OBY U.K.

Tomoaki KURATATE  
303 Famille Matsudo Grandage II,  
1-6-1, Minami-hanashima,  
Matsudo-shi, Chiba-ken JAPAN

are inventor(s) of and owner(s) of rights to a certain invention entitled:

DIFFRACTIVE SPATIAL LIGHT MODULATOR AND DISPLAY

for which application for Letters Patent of the United States was executed on the date indicated below, and

WHEREAS, the ASSIGNEE:

SHARP KABUSHIKI KAISHA  
22-22, Nagaikcho, Abeno-ku  
Osaka 545-8522 Japan

is desirous of acquiring the entire interest in, to and under said invention and the United States Letters Patent to be obtained therefor.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR(S) of the sum corresponding to One Dollar (\$1.00), and for other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR(S) hereby sells, assigns and transfers to ASSIGNEE the full and exclusive right, title and interest to said invention and all Letters Patent of the

United States to be obtained therefor on said application or any continuation, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted.

ASSIGNOR(S) hereby covenants that no assignment, sale, agreement, charge or other encumbrance has been or will be entered into which would conflict with this assignment and sale.

ASSIGNOR(S) further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent as may be known and accessible to ASSIGNOR(S) and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or his legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce said application, said invention and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

Signed:

Date:



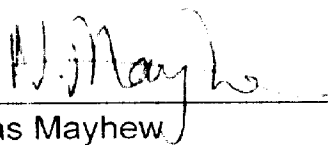
April 14, 2000

Craig Tombling



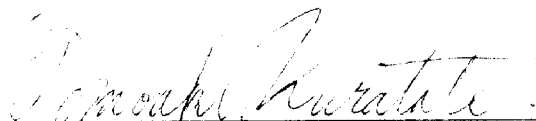
April 14, 2000

Michael Geraint Robinson



April 14, 2000

Nicholas Mayhew



April 14, 2000

Tomoaki Kuratate