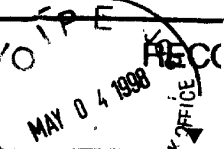


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05-12-1998



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U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

To the Honorable Commissioner of Patent

and original documents or copy thereof.

1. Name of conveying party(ies):

Michael James Brownlow  
Andrew Kay  
Graham Andrew Cairns  
Toshio Nomura

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

2. Name and address of receiving party(ies)

Name: Sharp Kabushiki Kaisha

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

Street Address: \_\_\_\_\_

22-22, Nagaike-cho

City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_

Abeno-ku, Osaka, Japan, 545-8522

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

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other \_\_\_\_\_

Execution Date: March 23, 1998

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)

09/041,394

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

Street Address: \_\_\_\_\_

1621 Euclid Avenue, 19th Floor

5/08/1998 GBUCKETT 00000074 09041394

City: Cleveland State: OH ZIP: 44115

6. Total number of applications and patents involved:

7. Total fee (37 CFR 3.41).....\$ \_\_\_\_\_

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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

Reg. No. 26,725

Signature

April 29, 1998

Date

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

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Washington, D.C. 20231

Docket No. YAMAP0550US

PATENT  
REEL: 9154 FRAME: 0170

**ASSIGNMENT**

WHEREAS, The ASSIGNOR, comprising the following named inventor(s):

1. Michael James BROWNLOW; 124 Church Road,  
Sandford on Thames,  
Oxford OX4 4YB U.K.
2. Andrew KAY; 99 Hurst Street, Oxford OX4 1HA U.K.
3. Graham Andrew CAIRNS; 22 Bourne Close, Cuttleslowe,  
Oxford OX2 8NH U.K.
4. Toshio NOMURA; 50 Foxdown Close, Kidlington,  
Oxfordshire OX5 2YE U.K.

has invented and owns a certain invention entitled:

**FAULT TOLERANT CIRCUIT ARRANGEMENTS**

for which application for Letters Patent of the United States was filed on March 12, 1998, and having Express Mail No. EE204133135US, and

WHEREAS, the ASSIGNEE:

SHARP KABUSHIKI KAISHA  
22-22, Nagaike-cho, 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 of the sum corresponding to One Dollar (\$1.00),

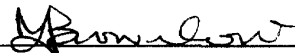
the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the full and exclusive right, title and interest to said invention and all Letters Patent of the United States to be obtained therefor on said application or any continuation, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted.

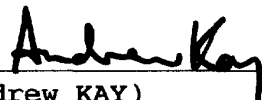
ASSIGNOR hereby covenants that no assignment sale agreement charge or other encumbrance has been or will be entered into which would conflict with this assignment and sale;

ASSIGNOR 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 and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its 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.

IN WITNESS WHEREOF, the parties have hereunto set their hands and seal

this 23rd day of March, 1998.

1.   
(Michael James BROWNLOW)

2.   
(Andrew KAY)

3.   
(Graham Andrew CAIRNS)

4.   
(Toshio NOMURA)