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U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

Docket No. YAMAP0900US

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

1. Name of conveying party(ies): Patrick A. Zebedee Harry Garth Walton Additional name(s) of conveying party(ies) attached? [ ] Yes [x] No

1-20-04

2. Name and address of receiving party(ies) Name: Sharp Kabushiki Kaisha Internal Address:

22264 U.S. PTO 10/760576

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3. Nature of conveyance: [ ] Assignment [ ] Merger [ ] Security Agreement [ ] Change of Name [ ] Other

Street Address: 22-22, Nagaike-cho, Abeno-ku City: Osaka State: JP Zip: 545-8522

Execution Date: 12/4/2003

Additional name(s) & address(es) attached? [ ] Yes [x] No

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: 12/4/03

10760576

A. Patent Application No.(s) B. Patent No.(s)

Additional numbers attached? [ ] Yes [x] No

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

Name: Neil A. DuChes Internal Address: Renner, Otto, Boisselle & Sklar, LLP

6. Total number of applications and patents involved: [ ]

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

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Street Address: 1621 Euclid Avenue Nineteenth Floor City: Cleveland State: OH Zip: 44115

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9. Signature.

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Neil A. DuChes Name of Person Signing

Signature

January 20, 2004 Date

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Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

PATENT REEL: 014945 FRAME: 0677

**ASSIGNMENT**

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

Patrick A. ZEBEDEE;  
66 Crotch Crescent, Marston,  
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Harry Garth WALTON;  
~~45 Beauchamp Place, Beauchamp Lane, Cowley,  
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are inventor(s) of and owner(s) of rights to a certain invention entitled:

SHIFT REGISTER

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, 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(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:

Patrick A. Zebede  
Patrick A. ZEBEDEE

4-12-03

Harry Garth Walton  
Harry Garth WALTON

4/12/03