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05/01/00

FORM PTO-1596  
1-31-92

RECORDATION FOR

DEPT. OF COMMERCE  
Patent and Trademark Office

101354407

Docket No.: 50203-113

PATENTS ONLY

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

1. Name of Conveying Parties:

Masayoshi SAKAI and Toshihito SHIRAI

2. Name and address of receiving party:

Name: THE NIPPON SIGNAL CO., LTD.

Address: 3-1, Marunouchi 3-chome

Chiyoda-ku

Tokyo, Japan

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

3. Nature of Conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other

Execution Date: February 7, 2000

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

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

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

A. Patent Application No(s).

09/485,456, filed February 10, 2000

B. Patent No(s).

Additional numbers attached? ☐ Yes

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

Name: MCDERMOTT, WILL &amp; EMERY

Internal Address:

Street Address: 600 13<sup>th</sup> Street, N.W.

City: Washington State: DC Zip: 20005

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:

500417

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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.*

Robert L. Price, 22,685

May 1, 2000

Name and Registration No. of Person Signing

Signature

Date

Total number of pages comprising cover sheet: 1

CMB No. 0851-0011 (exp. 4/94)

05/10/2000 DNGUYEN 00000280 500417 09485456

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40.00 CH

PATENT  
REEL: 010771 FRAME: 0390

ocket No.: \_\_\_\_\_

ASSIGNMENT

In consideration of the premises and other good and valuable consideration in hand paid, the receipt and sufficiency of which hereby acknowledged, the undersigned,

) Masayoshi SAKAI (4) \_\_\_\_\_  
) Toshihito SHIRAI (5) \_\_\_\_\_  
) \_\_\_\_\_ (6) \_\_\_\_\_

to have made a certain new and useful invention, hereby sell, assign and transfer unto

THE NIPPON SIGNAL CO., LTD. of  
3-1, Marunouchi 3-chome, Chiyoda-ku,  
Tokyo, JAPAN

successors and assigns (hereinafter designated "ASSIGNEE") the entire right, title and interest for the United States of America defined in 35 U.S.C. 100 in the invention entitled

THRESHOLD VALUE OPERATION CIRCUIT, AND, AND GATE CIRCUIT, SELF HOLD CIRCUIT,  
START SIGNAL GENERATION CIRCUIT USING THRESHOLD VALUE OPERATION CIRCUIT

) for which an application for United States Letters Patent was filed on 10/06/99, and identified  
United States Serial No. PCT/JP99/03115; or

) for which an application for United States Letters Patent was executed on \_\_\_\_\_,

and the undersigned hereby authorize and request the United States Commissioner of Patents and Trademarks to issue any and all United States Letters Patent which may be granted therefor and any and all extensions, divisions, reissues, substitutes, renewals, continuations, or continuations-in-part thereof, and the right to all benefits under the International Convention for the Protection of Industrial Property to the said ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives; the undersigned agree that the attorneys of record in said application shall hereafter act on behalf of said ASSIGNEE;

AND the undersigned hereby agree to transfer a like interest, and to render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, upon request of the said ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, in and to any improvements, and applications for patent issued thereon, growing out of or related to the said invention; and to execute any papers by the said ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

SIGNED on the dates indicated aside our signatures:

INVENTORS

DATE SIGNED

) Masayoshi SAKAI  
Name: Masayoshi SAKAI  
) Toshihito Shirai  
Name: Toshihito SHIRAI  
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