

PATENT ASSIGNMENT

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| HIROSHI HAGA | 09/10/1999 |
| ICHIRO FUJIEDA | 09/10/1999 |
| FUJIO OKUMURA | 09/10/1999 |
| RECEIVING PARTY DATA | |
| Name: | NEC CORPORATION |
| Street Address: | 7-1, SHIBA 5-CHOME |
| City: | MINATO-KU, TOKYO |
| State/Country: | JAPAN |
| Postal Code: | 108-8001 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Patent Number: | 6583456 |
| CORRESPONDENCE DATA | |
| Fax Number: | (216)696-8731 |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> | |
| Phone: | 2166968730 |
| Email: | cmartin@thepatentattorneys.com |
| Correspondent Name: | Thomas E. Watson |
| Address Line 1: | 127 Public Square |
| Address Line 2: | 57th Floor, Key Tower |
| Address Line 4: | Cleveland, OHIO 44114 |
| ATTORNEY DOCKET NUMBER: | VNECP206USA |
| NAME OF SUBMITTER: | Thomas E. Watson |
| Total Attachments: 2 source=Inventors-to-NEC#page1.tif source=Inventors-to-NEC#page2.tif | |

OP \$40.00 6583456

Assignment

In consideration of One Dollar (\$1.00), and other good and valuable considerations, the receipt of which is hereby acknowledged, We, the undersigned,

Hiroshi HAGA, Ichiro FUJIEDA and Fujio OKUMURA

Hereby sell, assign and transfer to NEC Corporation

a corporation

of Japan having a place of business at
7-1, Shiba 5-chome, Minato-ku, Tokyo, Japan

its successors, assigns and legal representatives, the entire right, title and interest for all countries, in and to any and all improvements which are disclosed and claimed, and as possessed by the undersigned, any and all improvements which are disclosed but not claimed, in the application for United States Patent, which has been executed by the undersigned

on September 10, 1999

and is entitled

SEMICONDUCTOR DEVICE, METHOD OF MANUFACTURING THE SAME,
IMAGE SENSOR APPARATUS HAVING THE SAME AND IMAGE READER HAVING THE SAME

and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed on any of said improvements disclosed in said application; and in and to all original and reissued patents which have been or shall be issued on said improvements;

Authorize and request the Commissioner of Patents to issue to said Assignee, the corporation above named, its successors, assigns and legal representatives, in accordance with this assignment, any and all United States Letters Patent on said improvements, or any of them, disclosed in said application;

Agree that said Assignee may apply for and receive foreign Letters Patent for said improvements, or any of them; and may claim, in applications for said foreign Letters Patent, the priority of the aforesaid United States application under the provisions of the International Convention; and that, when requested, without charge to but at the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will, for the United States and all foreign countries, execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on any

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and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee its successors, assigns and representatives, all facts known to the undersigned relating to said improvements and the history thereof; testify in all legal proceedings; and generally do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date: September 10, 1999 Hiroshi Haga (L.S.)
Hiroshi HAGA

Witness: Fumitake Watanabe
[Signature]

Date: September 10, 1999 Ichiro Fujieda (L.S.)
Ichiro FUJIEDA

Witness: Fumitake Watanabe
[Signature]

Date: September 10, 1999 Fujio Okumura (L.S.)
Fujio OKUMURA

Witness: Fumitake Watanabe
[Signature]

RECORDED: 09/16/1999

RECORDED: 07/20/2011

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