

08-17-2001

R



101814341

HEET

8.8.01

PATENTS ONLY

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

Submission Type

(X) New

() Resubmission (Non-Recordation)
Document ID#() Correction of PTO Error
Reel # Frame #() Corrective Document
Reel # Frame #

Conveyance Type

(X) Assignment () Security Agreement

() License () Change of Name

() Merger () Other

U.S. Government
(For Use ONLY by U.S. Government Agencies)

() Departmental File () Secret File

Conveying Party(ies)

() Mark if additional names of conveying parties attached

Name (line 1) Kenji HIBINO

Name (line 2)

Second Party

Name (line 1)

Name (line 2)

Execution Date
Month Day Year

7 27 2001

Execution Date
Month Date Year

Receiving Party

() Mark if additional names of receiving parties attached

Name (line 1) NEC Corporation

Name (line 2)

Address (line 1) 7-1, Shiba 5-chome, Minato-ku

Address (line 2)

Address (line 3)

Tokyo
cityJapan
State/Country

Zip Code

() If document to be recorded is
an assignment and the
receiving party is not
domiciled in the United
States, an appointment of a
domestic representative is
attached. (Designation
must be a separate
document from Assignment.)

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

FOR OFFICE USE ONLY

Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0651-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS.

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

08/17/2001 LMUELLER 00000029 09835609

01 FC:581

40.00 DR

PATENT

REEL: 012067 FRAME: 0287

Correspondent Name and Address

Area Code and Telephone Number 1-408-289-5314Name Darryl WalkerAddress (line 1) Walker & Sako, LLPAddress (line 2) 300 South First Street, Suite 235Address (line 3) San Jose, CA 95113

Address (line 4)

Pages Enter the total number of pages of the attached conveyance document
including any attachments.# 1

Application Number(s) or Patent Number(s)

() Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).
Patent Application Number(s) Patent Number(s)09/835,609If this document is being filed together with a new Patent Application, enter the date the patent application was
signed by the first named executing inventor.

Month Day Year

Patent Cooperation Treat (PCT)

Enter PCT application number
only if a U.S. Application Number
has not been assigned.

PCT

PCT

PCT

PCT

PCT

PCT

Number of Properties

Enter the total number of properties involved.

1

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41):

\$ 40.00

Method of Payment:

Enclosed (X)

Deposit Account ()

Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

50-0784

Authorization to charge additional fees:

Yes (X)

No ()

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. Charges to deposit account are authorized, as
indicated herein.*Darryl Walker

Name of Person Signing

Darryl Walker

Signature

August 6, 2001

Date

ASSIGNMENT OF PATENT APPLICATION

FOR GOOD AND VALUABLE CONSIDERATION,

I, the undersigned in consideration of the sum of One Dollar (\$ 1.00) to me in hand paid by the Assignee and other good and valuable consideration receipt of which is hereby expressly acknowledged, hereby sell, assign and transfer unto

NEC Corporation

a corporation organized under the laws of the state of Japan as Assignee, and its successors, assigns and legal representatives, the entire right, title and interest, for all countries in and to certain inventions relating to

Semiconductor Memory Apparatus and Method for Outputting Data

described in an application for Letters Patent of the United States, identified as Docket No. N10860300S, in the Offices of Walker & Sako, LLP, 300 South First Street, Suite 235, San Jose, CA 95113 and filed on April 10, 2001, as Application Serial No. 09/835,609, and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part, divisionals, and renewals of and substitutes for said application for said Letters Patent, and all the rights and privileges under any and all Letters Patent that may be granted therefor in any country, and any reissues, or reexaminations, or extensions of said Letters Patent. I request that any and all Letters Patent for said inventions be issued to said Assignee, its successors, assigns and legal representatives, or to such nominees as it may designate.

I agree that, when requested, I will, without charge to said Assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in said Assignee, its successors, assigns and legal representatives or nominees.

I authorize and empower the said Assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said Assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International convention which may henceforth be substituted for it.

I hereby authorize Darryl Walker, agent for Assignee, to insert the filing date and Serial number into the first paragraph of this assignment, after the application for Letters Patent has been filed, and the U.S. Patent Office has assigned such application a Serial Number.

I covenant with said Assignee, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

IN WITNESS WHEREOF, I have hereunto signed my name on the day and year set forth below.

Kenji Hibino

Inventor's Signature

July 27, 2001

DATE

Kenji HIBINO

Inventor's Printed Name

Witnesses

Hiroshi Ueki

[Signature]

PATENT

RECORDED: 08/08/2001

REEL: 012067 FRAME: 0289