



06/02/2011

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1 Suguru KAWABATA 5 Nobuyoshi AWAYA
2 Shinobu YAMAZAKI 6 Akio KITAGAWA
3 Yoshiji OHTA 7 Kazuya NAKAYAMA
4 Kazuya ISHIHARA 8

Additional name/s of conveying party/ies attached? ☐

3. Nature of conveyance

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

Execution Date: 22 February 2011, 22 February 2011,
23 February 2011, 22 February 2011,
22 February 2011, 30 March 2011 and
31 March 2011, respectively

2. Name and address of receiving party(ies):

1) Name: SHARP KABUSHIKI KAISHA
Street Address: 22-22, Nagaike-cho, Abeno-ku
City: Osaka-shi
State/Country: Osaka Japan Zip: 545-8522

2) Name NATIONAL UNIVERSITY CORPORATION
KANAZAWA UNIVERSITY

Street Address: Nu 7, Kakuma-machi
City: Kanazawa-shi
State/Country: Ishikawa Japan Zip: 920-1164

Additional name/s & address/es attached? ☐ Yes ☒ No4 Application number(s) or patent number(s): ☐ This assignment is being filed together with a new application.

A. Patent Application No(s)

(1) 13/044,892
(2)
(3)

B. Patent No(s).

(1)
(2)
(3)

Additional numbers attached ☐ Yes ☒ No

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

Name: H. Warren Burnam, Jr.

Internal Address:

Street Address: Nixon & Vanderhye P.C.
901 North Glebe Road
11th Floor

City: Arlington State: VA Zip: 22203

6. Total number of applications & patents involved. 1

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

☒ Enclosed
☐ Authorized to be charged to deposit account #14-1140

8 The Commissioner is hereby authorized to charge any
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9. Statements 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.

H. Warren Burnam, Jr.

Name of Person Signing
Reg No. 29,366

Signature

May 31, 2011

Date

Total number of pages including original cover sheet, attachments, and document: [3]

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PATENT

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REEL: 026449 FRAME: 0740

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ASSIGNMENT OF PATENT APPLICATION

(Inventors) Suguru KAWABATA Shinobu YAMAZAKI
 Yoshiji OHTA Kazuya ISHIHARA
 Nobuyoshi AWAYA Akio KITAGAWA
 Kazuya NAKAYAMA

(Assignee(s)) In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

SHARP KABUSHIKI KAISHA and
(Address) NATIONAL UNIVERSITY CORPORATION KANAZAWA UNIVERSITY

(of 22-22 , Nagaike-cho, Abeno-ku, Osaka-shi, Osaka 545-8522 Japan and
of Nu 7, Kakuma-machi, Kanazawa-shi, Ishikawa 920-1164 Japan, respectively
(hereinafter designated as the Assignee) the undersigned's entire right, title and
interest for the United States, its territories, dependencies and possessions, and for
the country of

(Other (in the invention, and all application for patent and any Letters Patent which
Countries) may be granted therefore, known as

(Title) **NONVOLATILE SEMICONDUCTOR MEMORY DEVICE**

(Case No. -)

for which the undersigned has (have) executed on even date herewith an application
for patent in the United States of America or, if not on even date, then has executed
(on or has already filed in
(U.S. appln. Serial No. , filed on).

The undersigned acknowledges an obligation of assignment of this invention to said
assignee at the time the invention was made.

The undersigned agree(s) to execute all papers and documents necessary in connection with the
application or any interference which may be declared and any continuing or divisional applications
thereof and also to execute separate assignments in connection with such applications as the Assignee
may deem necessary or expedient and further to perform any act which may be necessary in connection
with claims or provisions of the International Convention for Protection of Industrial Property or similar
agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a
grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any
and all Letters Patent of the United States resulting from said application or any division or divisions or
continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby
covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has
(they have) not executed and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the firm of NIXON & VANDERHYE P.C. the power to insert on
this assignment any further identification which may be necessary or desirable in order to comply with the
rules of the United States Patent Office for recordation of this document. It is understood and agreed that
ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to
represent only ASSIGNEE with respect to this invention.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s).

Date	<u>22/2/2011</u>	Signature of inventor	(<u>Suguru Kawabata</u> Suguru KAWABATA
Date	<u>22/2/2011</u>	Signature of inventor	(<u>Shinobu Yamazaki</u> Shinobu YAMAZAKI
Date	<u>23/2/2011</u>	Signature of inventor	(<u>Yoshiji Ohta</u> Yoshiji OHTA
Date	<u>22/2/2011</u>	Signature of inventor	(<u>Kazuya Ishihara</u> Kazuya ISHIHARA
Date	<u>22/2/2011</u>	Signature of inventor	(<u>Nobuyoshi Awaya</u> Nobuyoshi AWAYA
Date	<u>30/3/2011</u>	Signature of inventor	(<u>Akio Kitagawa</u> Akio KITAGAWA
Date	<u>31/3/2011</u>	Signature of inventor	(<u>Kazuya Nakayama</u> Kazuya NAKAYAMA
Date	_____	Signature of inventor	(_____
Date	_____	Signature of inventor	(_____
Date	_____	Signature of inventor	(_____
Date	_____	Signature of inventor	(_____
Date	_____	Signature of inventor	(_____
Date	_____	Signature of inventor	(_____
Date	_____	Signature of inventor	(_____
Date	_____	Signature of inventor	(_____

Witnessed by: _____

Date _____

Witnessed by: _____

Date _____

Witnessed by: _____

Date _____