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Atsushi Kunimatsu  
Hiroto Nakai  
Hiroyuki Sakamoto  
Kenichi Maeda

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

### 3. Nature of conveyance/Execution Date(s):

Execution Date(s) 11/27/08, 12/1/08 and 12/2/08

- ☒ Assignment ☐ Merger  
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☐ Other \_\_\_\_\_

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

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Country: JP Zip: 105-8001

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

☐ This document is being filed together with a new application.

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

12/236,880

SUZU1920-1  
(Attorney Docket No.)

#### B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

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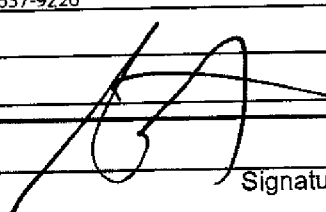
State: Texas Zip: 78705

Phone Number: 512-637-9220

Fax Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

### 9. Signature:



Signature

Ari G. Akmal, Reg. 51388  
Name of Person Signing

### 6. Total number of applications and patents involved: 1

### 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☒ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

### 8. Payment Information

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12-12-2008  
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Total number of pages including cover sheet, attachments, and documents: 3

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PATENT  
REEL: 021975 FRAME: 0609

## A S S I G N M E N T

ASG046259-USA-B  
(08S0041-I)

In consideration of value received, I, having a residence as stated below above my name, the sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of an invention described in an application for United States patent entitled:

## INTEGRATED MEMORY MANAGEMENT AND MEMORY MANAGEMENT METHOD

have sold and assigned and do hereby sell and assign to  
KABUSHIKI KAISHA TOSHIBA  
a Japanese corporation, having a business address at  
1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001, Japan

its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said United States patent application:

(check one) ☒ executed concurrently herewith  
☐ executed on ;  
☒ Application No. 12/236,880, filed September 24, 2008 ;

and in and to all applications for patent and patents for invention including all divisions, reissues, continuations, substitutes and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing, continued prosecution, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention.

I hereby grant the following law firm 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 U.S. Patent and Trademark Office for recordation of this document.

Sprinkle IP Law Group, 1301 W. 25th Street, Suite 408, Austin, TX 78705

## ASSIGNMENT

ASG046259-USA-B  
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PATENT

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