

3/24/05

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To the Director of the U.S. Patent and Trademark Office, or the new address(es) below.	
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<b>3. Nature of conveyance:</b> <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Other _____	<b>4. Application or patent number(s):</b> <input checked="" type="checkbox"/> This document is being filed together with a new application. A. Patent Application No.(s) _____ B. Patent No.(s) _____ Additional numbers attached? <input type="checkbox"/> Yes <input type="checkbox"/> No
<b>5. Name and address to whom correspondence concerning document should be mailed:</b> Name: <u>George B. F. Yee</u> Internal Address: _____ <u>TOWNSEND AND TOWNSEND AND CREW LLP</u> Street Address: <u>Two Embarcadero Center,</u> <u>Eighth Floor</u> City: <u>San Francisco</u> State: <u>California</u> Zip: <u>94111-3834</u> Phone Number: <u>(415) 576-0200</u> Fax Number: <u>(415) 576-0300</u> Email Address: _____	<b>6. Total number of applications and patents involved:</b> <u>1</u> <b>7. Total fee (37 CFR 1.21(h) &amp; 3.41) \$</b> <u>40.00</u> <input type="checkbox"/> Authorized to be charged by credit card <input checked="" type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title) <b>8. Payment Information</b> a. Credit Card Last 4 numbers _____ Expiration Date _____ b. Deposit Account Number <u>20-1430</u> Authorized User Name <u>Townsend and</u> <u>Townsend and Crew LLP</u>
<b>9. Signature:</b> <u>George B. F. Yee</u> Signature _____ Date _____ Name of Person Signing _____ Atty. Reg. No. <u>37,478</u> Total number of pages including cover sheet, attachments, and documents: <u>3</u>	

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:  
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PATENT  
REEL: 016422 FRAME: 0586

**ASSIGNMENT OF PATENT APPLICATION**

SOLE

WHEREAS, Manabu Kitamura of 19500 Pruneridge Aveune, #3311, Cupertino, CA 95014, hereinafter referred to as "Assignor," is the inventor of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention:           **METHOD AND APPARATUS FOR MONITORING THE  
QUANTITY OF DIFFERENTIAL DATA IN A STORAGE  
SYSTEM**

Date(s) of execution of Declaration:   March 23, 2005

Filing Date:                               March 24, 2005

Application No.:                               ; and

WHEREAS, Hitachi, Ltd., a corporation of Japan, located 6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo, Japan, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor has assigned, and by these presents does assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on any patent application claiming priority from the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignor had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignor further agrees that Assignor will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

Assignor hereby authorizes and requests Townsend and Townsend and Crew LLP, Two Embarcadero Center, Eighth Floor, San Francisco, CA 94111-3834, to insert herein above the application number and filing date of said application when known.

IN TESTIMONY WHEREOF, Assignor has signed his/her name on the date indicated.

Dated: 3/23/2005

Manabu Kitamura  
Manabu Kitamura

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