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To the Honorable Commissioner of Patents

ached original documents or copy thereof.

1. Name of conveying party(ies): 1) Matthew Joseph Kalos, 2) Robert Akira Kubo, and 3) Richard Anthony Ripberger	Execution Date 1) November 29, 2005 2) November 28, 2005 3) November 29, 2005	2. Name and address of receiving party(ies): International Business Machines Corporation Armonk, New York 10504
Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: _____ A. Patent Application No.(s): 11/292,747, filed December 1, 2005 B. Patent No.(s): _____ Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
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5. Name and address of party to whom correspondence concerning document should be mailed:  Janaki K. Davda KONRAD RAYNES & VICTOR, LLP 315 S. Beverly Drive, Suite 210 Beverly Hills, CA 90212  Return facsimile number: 310-556-7984  Telephone number: 310-556-7983	6. Total number of applications and patents involved: [ 1 ]  7. Total fee (37 CFR 3.41).....\$ 40 <input type="checkbox"/> Enclosed; Credit Card Authorization Form <input checked="" type="checkbox"/> Authorized to be charged to deposit account  8. Deposit account number: 09-0449  (Attach duplicate copy of this page if paying by deposit account)
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9. Statement and signature.  To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.  Janaki K. Davda Name of Person Signing  Signature  February 8, 2006 Date  Total number of pages including cover sheet (+ copy) and executed assignment: [ 2 ]	
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OMB No. 0651-0011 (exp. 4/94)

## CERTIFICATE UNDER 37 CFR 1.8:

I hereby certify that this correspondence is being transmitted by facsimile to Assignment Recordation Services of the U.S. Patent and Trademark Office at 571-273-3250, or being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box Alexandria, VA 22313-1450 on February 8, 2006.

Patricia McLaughlin  
Date 2/8/06

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Patent Docket: TUC920050022US1»

## ASSIGNMENT

Whereas, we

(1) Matthew Joseph Kalos of Tucson,  
State of Arizona, and  
County of Pima

(2) Robert Akira Kubo of Tucson,  
State of Arizona, and  
County of Pima

(3) Richard Anthony Ripberger of Tucson,  
State of Arizona, and  
County of Pima

have invented certain improvements in:

## SPARE DEVICE MANAGEMENT

and executed, respectively, a United States patent application therefore on:

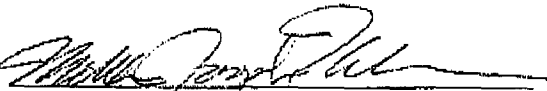
(1) 11/29, 2005, (2) 11/28, 2005 and (3) 11/29, 2005

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM CORPORATION), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefore:

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I, the above named, hereby sell, assign, and transfer to IBM CORPORATION, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and I request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in said application to IBM CORPORATION, its successors and assigns; and I hereby agree that IBM CORPORATION may apply for foreign Letters Patent on said invention and I will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM CORPORATION.

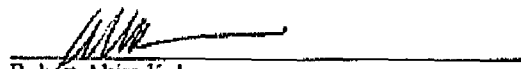
Signed and sealed

CITY (1) at Tucson  
DATE on 11/29, 2005

  
Matthew Joseph Kalos

SIGNATURE  
INVENTOR

CITY (2) at Tucson  
DATE on 11/29, 2005

  
Robert Akira Kubo

SIGNATURE  
INVENTOR

CITY (3) at Tucson  
DATE on 11/29, 2005

  
Richard Anthony Ripberger

SIGNATURE  
INVENTOR

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