08-13-2002 FORM PTO-1595 (Modified) U.S. DEPARTMENT OF COMMERCE (Rev. 03-01) Patent and Trademark Office OMB No. 0651-0027 (exp 5/31/2002) P08/REV03 Tab settings → → 102187854 To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. 1. Name of conveying party(ies): 2. Name and address of receiving party(ies): Krishnakumar Rao Surugucchi 18-01-02 Name: International Business Machines Corporation Internal Address: ☐ Yes 🏻 No Additional names(s) of conveying party(ies) 3. Nature of conveyance: Street Address: New Orchard Road ★ Assignment Merger ☐ Security Agreement Change of Name State: NY ZIP: 10504 City: Armonk Other Execution Date: 7/26/02 Additional name(s) & address(es) attached? **⊠** No ☐ Yes 4. Application number(s) or patent numbers(s): If this document is being filed together with a new application, the execution date of the application is: 7/26/02 A. Patent Application No.(s) B. Patent No.(s) 10/211109 Additional numbers attached? ☐ Yes **⋈** No 5. Name and address of party to whom correspondence 6. Total number of applications and patents involved: concerning document should be mailed: Name: Arthur J. Samodovitz 7. Total fee (37 CFR 3.41):....\$ 40.00 Internal Address: IBM Corporation, N50/040-4 Enclosed - Any excess or insufficiency should be credited or debited to deposit account da/13/2002 GTOH11 00000006 090457 10211109 t FC:581 40.00 CH Authorized to be charged to deposit account 8. Deposit account number: Street Address: 1701 North Street 09-0457 (Attach duplicate copy of this page if paying by deposit account) State: NY ZIP: 13760 City: Endicott DO NOT USE THIS SPACE 9. 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. Arthur J. Samodovitz, Reg. No. 31,297 Date Name of Person Signing Signature Total number of pages including cover sheet, attachments, and document:

Docket No.: SJO920010091US1

IBM Ref. No.: SJO920010091US1 Altera Ref. No.: 501.403US01

PATENT ASSIGNMENT TO CORPORATION WORLDWIDE

WHEREAS.

1. Krishnakumar Rao Surugucchi residing at 810 San Marco Avenue, Fremont, California 94539 and a citizen of USA;

residing at and a citizen of ;

hereafter referred to as "THE UNDERSIGNED", have made an invention entitled: METHOD AND APPARATUS FOR ENHANCING RELIABILITY AND SCALABILITY OF SERIAL STORAGE DEVICES

AND, WHEREAS, INTERNATIONAL BUSINESS MACHINES CORPORATION, hereafter referred to as ASSIGNEE, a corporation organized under the laws of the state of New York and whose place of business is New Orchard Road, Armonk, New York 10504, is desirous of acquiring the entire right, title and interest in the same:

NOW, THEREFORE in consideration of the sum of One Dollar, the receipt whereof is acknowledged, and other good and valuable consideration, THE UNDERSIGNED hereby sell, assign and transfer unto ASSIGNEE the full and exclusive right to the said invention in the United States and the entire right, title and interest in and to all divisionals, continuations, continuations in part, reissues, reexaminations or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extension of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the said invention including an assignment of all rights under the provision of international conventions and all Letters Patent of foreign countries which may be granted therefrom; the UNDERSIGNED hereby authorize the Commissioner of Patents to issue any and all United States Letters Patent for the aforesaid invention to ASSIGNEE of the entire right, title and interest in and to the same, for the use of the ASSIGNEE, its successors and assigns.

THE UNDERSIGNED, hereby agree that THE UNDERSIGNED, their executors and legal representatives will make, execute and deliver (without charge but at the expense of the ASSIGNEE) any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said ASSIGNEE, its successors and representatives all facts Known to THE UNDERSIGNED relating to said invention and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable to vest the ASSIGNEE, its successors or assigns the entire right, title and interest in and to the said invention, applications, Letters Patent, rights, titles and benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

THE UNDERSIGNED represent and agree with said Assignee its successors and assignees, that no assignment grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by THE UNDERSIGNED, and that full right to convey the same as herein expressed is possessed by THE UNDERSIGNED.

N TESTIMONY WHERFOF, THE UNDERSIGN	NED have hereunto set their hand on the dates indicated
pelow.	7/20/02
Krishnakumar Rad Surugucchi	Date
	 Date

No Legalization Required

RECORDED: 08/01/2002

PATENT REEL: 013172 FRAME: 0651