orm PTO-1595 (Rev. 08/05) 11-29	U.S. DEPARTMENT OF COMMER
MB No. 0651-0027 (exp. 6/30/2008)	United States Patent and Trademark Off
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	42092 e record the attached documents or the new address(es) below.
Name of conveying party(ies):	2. Name and address of receiving party(ies)
John A. KOSKI (9/20/2004) and Timothy C. HUGHES (9/20/2004)	Name: Quantum Corporation
Additional name(s) of conveying party(ies) attached? Yes X No	Internal Address: Street Address:
3. Nature of conveyance/Execution Date(s):	
Execution Date(s): in parentheses after inventor name X Assignment Merger Change of Name	1650 Technology Drive, Suite 800
Security Agreement Joint Research Agreement	City: San Jose
Government Interest Assignment	State: California
Executive Order 9424, Confirmatory License	Country: United States of America Zip: 95110
Other	Additional name(s) & address(es) Yes X No attached?
A. Patent Application No.(s)	This document is being filed together with a new application. B. Patent No.(s)
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A. Patent Application No.(s) Additional numbers attached Name and address to whom correspondence concerning document should be mailed: Name: Christopher B. Eide MORRISON & FOERSTER LLP Internal Address: Atty. Dkt.: 249212028112 Street Address: 755 Page Mill Road City: Palo Alto	Patent No.(s) Yes X No 6. Total number of applications and patents involved: 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged by credit card X Authorized to be charged to deposit account Enclosed
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11/28/2006 MJAMA1 00000017 031952 11602872 01 FC:8021 40.00 DA

ASSIGNMENT JOINT

THIS ASSIGNMENT, by John A. KOSKI and Timothy C. HUGHES (hereinafter referred to as the assignors), residing at 2004 Clipper Drive, Lafayette, Colorado 80026 and 1 Benchmark Drive, Boulder, Colorado 80303, respectively, witnesseth:

WHEREAS, said assignors have invented certain new and useful improvements in SERVO TRACK HAVING PERIODIC FRAMES OF TONE FIELD AND EMBEDDED SYNCHRONIZATION MARKS, set forth in an application for Letters Patent of the United States, bearing Serial No. 10/854,078 and filed on May 24, 2004; and

WHEREAS, Quantum Corporation, a corporation duly organized under and pursuant to the laws of Delaware and having its principal place of business at 1650 Technology Drive, Suite 800, San Jose, California 95110 (hereinafter referred to as the assignee) is desirous of acquiring the entire right, title and interest in and to said inventions and said application for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, said assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto said assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said assignee, for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignors, had this sale and assignment not been made.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said assignors are the sole and lawful owners of the entire right, title and interest in and to said inventions and the application for Letters Patent above-mentioned, and that the same are unencumbered and that said assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that said assignors will, whenever counsel of said assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-inpart of any application for Letters Patent or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.

AND said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said inventions and the Letters Patent to be issued thereon for the sole use of said assignee, its successors, legal representatives and assigns.

Date

Sent 20 2004

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Cimothy C HUGHRS

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pa-908603

My Commission Expires 03/21/2007

PATENT

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REEL: 018632 FRAME: 0133

...orney Docket No.: 249212028100

ASSIGNMENT JOINT

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NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, said assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto said assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said assignee, for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignors, had this sale and assignment not been made.

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AND said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said inventions and the Letters Patent to be issued thereon for the sole use of said assignee, its successors, legal representatives and assigns.

pa-908603

My Commission Expires 03/21/2007

PATENT

REEL: 018632 FRAME: 0134

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RECORDED: 11/20/2006