PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
NHAN X. BUI	09/30/2014
KEVIN B. JUDD	09/30/2014
ROGER J. JUSTO	09/30/2014
HIROKAZU NAKAYAMA	10/02/2014
TOMOKO TAKETOMI	10/03/2014

RECEIVING PARTY DATA

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State/Country:	NEW YORK
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14960954

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ATTORNEY DOCKET NUMBER:	TUC920120144US3 (497.U03)
NAME OF SUBMITTER:	JOHN A. GRIFFITHS
SIGNATURE:	/JOHN A. GRIFFITHS/
DATE SIGNED:	12/07/2015
	This document serves as an Oath/Declaration (37 CFR 1.63).
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Total Attachments: 4

PATENT REEL: 037225 FRAME: 0444 source=TUC920120144US3_Assignment-Declaration#page1.tif source=TUC920120144US3_Assignment-Declaration#page2.tif source=TUC920120144US3_Assignment-Declaration#page3.tif source=TUC920120144US3_Assignment-Declaration#page4.tif

> PATENT REEL: 037225 FRAME: 0445

DECLARATION (37 C.F.R. 1.63) FOR UTILITY PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76) AND ASSIGNMENT

Title of Invention: DYNAMICALLY CONTROLLING TAPE VELOCITY

Whereas, the undersigned inventor(s) has/have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") disclosed in the above-identified patent application and further identified by the IBM Docket Number provided above in the header of this document;

Whereas, International Business Machines Corporation, a corporation of New York having a place of business at Armonk, New York (herein referred to as "IBM"), desires to acquire, and each undersigned inventor desires to grant to IBM, the entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor ("ASSIGNOR") hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to IBM (the "ASSIGNEE"), its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned inventor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to IBM. its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by IBM, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and each undersigned inventor agrees to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in IBM, its successors, legal representatives, and assigns, whenever requested by IBM, its successors, legal representatives, or assigns.

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TUC920120144US2 (497.U02)

Each undersigned inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to IBM and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not execute, any document or instrument in conflict herewith. Each undersigned inventor also hereby grants IBM, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application Number) which may be necessary or desirable for recordation of this Assignment. This Assignment is governed by the substantive laws of the State of New York, and any disputes will be resolved in a New York state court or federal court sited in New York.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

(1)	Legal Name of Inventor: Nhan X. BUI		
	Signature: / Munchi	_Date:_	9/30/201
(2)	Legal Name of Inventor: Kevin B. JUDD		
	Signature: Life Fluid	Date:_	9/30/14
(3)	Legal Name of Inventor; Roger J. JUSTO		
	Signature:	_Date:_	9/30/14
(4)	Legal Name of Inventor: Hirokazu NAKAYAMA		
	Signature:	_Date:_	· · · · · · · · · · · · · · · · · · ·

[IF MORE INVENTORS, ADDITIONAL SIGNATURE PAGE(S) FOLLOWS]

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Each undersigned inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to IBM and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not execute, any document or instrument in conflict herewith. Each undersigned inventor also hereby grants IBM, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application Number) which may be necessary or desirable for recordation of this Assignment. This Assignment is governed by the substantive laws of the State of New York, and any disputes will be resolved in a New York state court or federal court sited in New York.

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(I) Legal Name	of inventor: Nhan X. BUI		
Signature:		Date:	
(2) Legal Name	of Inventor: Kevin B. JUDD		
Signature:		Date:	anany.
(3) Legal Name	of inventor: Roger J. JUSTO		
Signature:		Date:	
(4) Legal Name	of Inventor: Hirokaza NAKAYAM	A	
Signature:	Hirokaya Irahay	one Date: Oct 02	2014

[IF MORE INVENTORS, ADDITIONAL SIGNATURE PAGE(S) FOLLOWS]

TUC920120144US2 (497.U02)

(5) Legal Name of Inventor: Tomoko TAKETOMI

Signature: Jamoba Taheton Date: Oct. 03. 2014

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PATENT REEL: 037225 FRAME: 0449

RECORDED: 12/07/2015