PORCHARDERSE NAME   REC   Image: Normal State in the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.     1. Name of comvysing party (ess):   Kait A Compbell   2. Name and address of receiving party(ies):     Analianal numerics of our vying party (ess):   Name (S W Nevelle)   2. Name and address of receiving party(ies):     Analianal numerics of our vying party (ess):   Name   2. Name and address:   1. Name of conveying party (ess):     Analianal numerics of our vying party (ess) attached (				12-10	-1999			
1. Name of conveying partylies:   2. Name and address of receiving partylies:     Kut A Campbell   James W. Nevelle     James W. Nevelle   Name:US W.ST. Inc	FORM PTO-1595 (Modified)	ORM PTO-1595 NANO REC				ET		
Kort A Campbell   Name: U.S.WEST, Inc.     Additional names of conveying part(test attached' Yes No     Additional names; of conveying part(test attached' Yes No     3. Nature of conveying part(test attached' Yes No     3. Nature of conveying part(test attached' Yes No     3. Nature of conveying part(test attached' Yes No     Street Address: Suite 5100	To the Hone	rable Commissio	ner of Patents			ached origin	nal documents or copy thereof.	
3. Nature of conveyance:   Street Address: _1801 California Street	Kurt A. Campbell				Name: <u>USWEST, Inc.</u>			
XAssignment	Additional name(s) of	conveying party(ies)	attached	YesX_No				
	3. Nature of conveyance:				Street Address: <u>1801 California Street</u>			
Other	X_Assignment Merger				Suite 5100			
Additional name(s) & address(cs) attached ' Yes No-     Execution Date:   July 26, 1999     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 Appl cation No.(s)   09 203,080     B. Patent No.(s)   B. Patent No.(s)     Additional numbers attached?   YesNo     5. Name and add ess of party to whom correspondence concerning do unsett should be mailed   6. Total number of applications and patents involved:	Security A	A greementChange of Name			City: Denver State: CO Zip: 80202			
Execution Date:   July 26, 1999     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 Appl cation No.(s)   09 203,080     B. Patent No.(s)     A. Patent Appl cation No.(s)   09 203,080     B. Patent No.(s)     Additional numbers attached?   Yes     Yes   X_No     5. Name and add cess of party to whom correspondence concerning do unnent should be mailed.   6. Total number of applications and patents involved:     Name:   Peter Kinsella   7. Fotal Fee (37 C.I.R. § 3.41)     Address:   U.S.W. ST, Inc.	Other				Additional name(s) & address(es) attached? Yes X No			
If this document is being filed together with a new application, the execution date of the application is:	Execution Date:	July 26, 1999						
5. Name and add css of party to whom correspondence concerning do ument should be mailed:   6. Total number of applications and patents involved:     Name:Peter Kinsella   7. Fotal Fee (37 C.I.R. § 3.41)		_	-	30		B. Pate	nt No.(s)	
Address: U.S.W. (ST, Inc.					6. Total number of applications and patents involved:1			
	Name: <u>Peter</u>	Name:Peter Kinsella				7. Total Fee (37 C.I.R. § 3.41) \$ 40.00		
City:   Denver   State:   CO   ZIP:   80202   8. Deposit Account Number:   U S West Acct. No. 21-0456     (Attach duplicate copy of this page if paying by Deposit Account)   8. Deposit Account Number:   U S West Acct. No. 21-0456     (Attach duplicate copy of this page if paying by Deposit Account)   DO NOT USE THIS SPACE     9. Statement and signature.   To the best of m / knowledge and belief, the foregoing information is true and correct, and any attached copy is a true copy of the original document.     Ralph E. St nith   Def Markowledge Signature   November 19, 1999     Name of Person Signing   Signature   Date     Total number of pages including cover sheet, attachments, and document:   3     12/08/1999 DNGUYEN   00000325 210456   09203086	Address: <u>U S W iST, Inc.</u>				Enclosed			
				X_Authorized to be charged to Deposit Account				
DO NOT USE THIS SPACE     9. Statement and signature. To the best of maknowledge and belief, the foregoing information is true and correct, and any attached copy is a true copy of the original document.     Ralph E. St tith   Image: Comparison of the signature of the program of the signature of the signate of the signature of the signature of the	City: <u>Denver</u>	State:COZIP: <u>80202</u>			-			
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.     Ralph E. St itth   22445     November 19, 1999     Name of Person Signing   Signature     Total number of pages including cover sheet, attachments, and document:   3     12/08/1999 DNGUYEN   00000325 210456			÷		1	opy of this pag	e if paying by Deposit Account)	
To the best of marknowledge and belief, the foregoing information is true and correct, and any attached copy is a true copy of the original document.		<						
Name of Person Signing Signature Date   Total number of pages including cover sheet, attachments, and document: 3   12/08/1999 DNGUYEN 00000325 210456 09203086	To the best of m	÷	elief, the forego	-		•	py is a true copy of the original	
Name of Person Signing Signature Date   Total number of pages including cover sheet, attachments, and document: 3   12/08/1999 DNGUYEN 00000325 210456 09203086	Datet D. C.			L.	ph S S		Nevember 10, 1000	
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Mail documents to be recorded with required cover sheet information to: Box Assignments, Hon. Commissioner of Patents and Trademarks

Washington, D.C 20231

# PATENT REEL: 010421 FRAME: 0473

### ASSIGNMENT

For the sum of One Dollar (\$1.00) and other good and valuable consideration, receipt of which is hereby acknowledged, I, Kurt A. Campbell of 101 Sandler Drive, Lafavette, CO 80026, do hereby assign, sell and set over to U S WEST, Inc., a corporation organized and existing under the laws of the State of Delaware, and having a place of business at 1801 California Street, Suite 5100, Denver, Colorado 80202, U.S.A., hereinafter referred to as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and interest, domestic and foreign, in and to the inventions and discoveries in

## SYSTEM AND METHOD FOR INCREASING DISTRIBUTION DISTANCE OF XDSL TYPE SIGNALS

set forth in the application for United States Letters Patent, Serial No. 09/203,086, filed December 1, 1998, including the right of said ASSIGNEE, its successors, assigns or other legal representatives to make applications and to receive Letters Patent for said inventions and discoveries in any and all foreign countries in its or their own name or names, or in my name, at it: or their election, and I hereby assign, sell and set over to said ASSIGNEE, its successors, assigns or other legal representatives, all rights of priority in and to said inventions and discoveries in all countries

And I hereby agree for myself. my heirs, successors, assigns or other legal representatives to execute any and all papers, including applications for Letters Patent of any and all kinds and in any and all countries and to perform any and all acts which said ASS GNEE, its successors, assigns or other legal representatives may deem necessary to secure thereto the rights herein assigned, sold and set over.

And I hereby represent and warrant that I have not granted any rights inconsistent with the rights granted herein.

7/26/99 DATE

Kurt A. Campbell

STAFE OF

COUNTY OF

On this 2'4" day of Luly, 1999, personally appeared before me kurt A. Campbell, to me known to be the person named in and who executed the above instrument, and acknowledged that he/she executed the same for the uses and purposes therein mentioned.

) ) ss.

Mein Hartenser

My Commission expires: My COMMISSION EXPIRES:

October 26, 2002 PATENT REEL: 010421 FRAME: 0474

(SEAL)

### ASSIGNMENT

For the sum of One Dollar (\$1.00) and other good and valuable consideration, receipt of which is hereby acknowledged, I, James W. Nevelle of 9688 S. Biltmore Way, Highlands Ranch, CO 80126, do hereby assign, sell and set over to U S WEST, Inc., a corporation organized and existing under the laws of the State of Delaware, and having a place of business at 1801 California Street, Suite 5100, Denver, Colorado 80202, U.S.A., hereinafter referred to as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and interest, domestic and foreign, in and to the inventions and discoveries in

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set forth in the application for United States Letters Patent, Serial No. 09/203,086, filed December 1, 1998, including the right of said ASSIGNEE, its successors, assigns or other legal representatives to make applications and to receive Letters Patent for said inventions and discoveries in any and all foreign countries in its or their own name or names, or in my name, at its or their election, and I hereby assign, sell and set over to said ASSIGNEE, its successors, assigns or other legal representatives, all rights of priority in and to said inventions and discoveries in all countries.

And I hereby agree for myself, my heirs, successors, assigns or other legal representatives to execute any and all papers, including applications for Letters Patent of any anc all kinds and in any and all countries and to perform any and all acts which said ASSIGNEE, its successors, assigns or other legal representatives may deem necessary to secure thereto the rights herein assigned, sold and set over.

And I hereby represent and warrant that I have not granted any rights inconsistent with the rights granted herein.

DATE

James W. Nevelle

STATE OF Colorador) SS. COUNTY OF anapahore)

On this 36 day of 302, 1999, personally appeared before me James W. Nevelle, to me known to be the person named in and who executed the above instrument, and acknowledged that he/she executed the same for the uses and purposes therein mentioned.

Kotanne M. Jirone Notary Public My Commission expires:

My Commission Expires September 29, 2002 17101 East Ohio Drive PATEN Plorado 80017

REEL: 010421 FRAME: 0475

(SEAL)

#### **RECORDED: 11/26/1999**