02-28-2001



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To the Honorable Commissioner of Patents and Trademarks. Please record the attached original document in original to Name of conveying party(ies).    Name of conveying party(ies)   2   Name and address of receiving party(ies)   2   Name and address of receiving party(ies)   3   Name and address of receiving address of party (ies)   3   Name and ad			
Name of conveying party(ies):   Youhong Lu	0011 (exp. 454)	PATENTS ONLY	Patent and Trademark Offic
Additional name(s) of conveying party(res) attached?  \  Yes  \  No  \	To the Honorable Commissioner of Patents a	and Trademarks: Please record the attached original	i document or copy thereof
Additional name(s) of conveyance   Yes   No   Internal Address   New Address   S400 Bay front Plaza   New Address   S400 Bay front Plaza   Cirs Santa Clara   State CA   Zip   Scottly Agreement   Change of Name   Change of Name   Additional name(s) & address(s) attached   Execution Date: January 29, 2001   Application number(s) or registration number(s):   This document is being filed together with a new application, the execution date of the application is:   A Patent Application No.(s):   B Patent No.(s)   B Patent No.(s)   No   Name and address of party to whom correspondence concerning   document should be mailed.   Name: McDonnell Boehnen Hulbert & Berghoff   32 nd Floor, 300 South Wacker Drive   State   Internal Address   S400 Bay front Plaza   No   State   Santa Clara   Santa Clara   State   Santa Clara   Santa	Name of conveying party(ies):	2. Name and address of rece	en/rig party(ies)
Additional numbers of conveying party(ses) attached? Yes No    Nature of conveyance	ng Lu	Name: 3Com Corpor	ration
Security Agreement	name(c) of conveying party/ses) attached?	Internal Address	341
Assignment			Bayfront Plaza
Security Agreement	signment Merger	Cuy Santa Clara - S	_
4. Application number(s) or registration 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):    Additional numbers attached?	- , , , , , , , , , , , , , , , , , , ,		
If this document is being filed together with a new application, the execution date of the application is:  A. Patent Application No.(s):  Additional numbers attached?  Yes  No  Source and address of party to whom correspondence concerning document should be mailed  Name: McDonnell Boehnen Hulbert & Berghoff  32nd Floor, 300 South Wacker Drive  City: Chicago State: Illinois Zip 60606  State: Illinois Zip 60606  DO NOTUSE THIS SPACE  Superior and separative to the charged to deposit account number: 13-390e (Attach duplicate copy of this page if pas in the first place hest of my kanneledge and belied, the foregoing information is true and course of page in the applications and patents in the copy of this page if pas in the first place hest of my kanneledge and belied, the foregoing information is true and course of page in the application of pages including cover sheet, at Amir N. Penn  Name of Person Signing, Reg. No. 40,767  Total number of pages including cover sheet, at Commissioner of Patents and Trademarks, Office of Public Records, Crystal Gateway 4, Room 335, Washington, D.C. 20231  CERTIFICATE OF MAILING 37 C F R 1.8  Linear Dy Commissioner of Patents and Trademarks Office of Public Records, Costal Gateway 4 Room 335 Washington, D.C. 20231  CERTIFICATE OF MAILING 37 C F R 1.8  Linear Dy Commissioner of Patents and Trademarks Office of Public Records, Costal Gateway 4 Room 335 Washington, D.C. 20231			ssics rattached. [ ] res [ ] 30
A. Patent Application No.(s):  Additional numbers attached? Yes No  Name and address of party to whom correspondence concerning document should be mailed.  Name: McDonnell Boehnen Hulbert & Berghoff 32nd Floor, 300 South Wacker Drive  City: Chicago State: Illinois Zip 60606  Total number of applications and patents and recheck insufficient or made entents are used. Authorized to be charged to deposit a if check insufficient or made entents are used. R. Deposit account number: 15.24m/Attach duplicate copy of this page if paying. Do NOT USE THIS SPACE.  Statement and signature is the best of mic knowledge and belief, the foregoing information is true and correct and anachide copy of this page if paying. Name of Person Signing, Reg. No. 40,767  Mail documents to be recorded with required cover sheet information to:  Mail documents to be recorded with required cover sheet information to:  Mail documents to be recorded with required cover sheet information to:  Crystal Gateway 4, Room 335, Washington, D.C. 20231  CERTIFICATE OF MAILING 37 C F R 18  L nereby certify that this correspondence is being deposited with the U.S. Postal Gateway 4 Room 335 Washington and Trademarks, Office of Public Records, Crystal Gateway 4 Room 335 Washington.	ion number(s) or registration number(s):	09/777115	
Additional numbers attached? Ves No  Name and address of party to whom correspondence concerning document should be mailed:  Name: McDonnell Boehnen Hulbert & Berghoff 32 <sup>nd</sup> Floor, 300 South Wacker Drive  City: Chicago State Illinois Zip 60606  State Illinois Zip 60606  Do Not Use this space if page if paying the best of the best of the best of the knowledge and belief, the foregoing information is true and correct and analysis and pages including cover sheet, at 10 pages including cover sheet information to:  Certificate of Malling 37 c f R 18	cument is being filed together with a new application, the	e execution date of the application is:	
Name: McDonnell Boehnen Hulbert & Berghoff  32 <sup>nd</sup> Floor, 300 South Wacker Drive  City: Chicago State: Illinois Zip 60606  City: Chicago State: Illinois Zip 60606  Do NOT USE THIS SPACE  Statement and signature  10 the best of my knowledge and belief, the foregoing information is true and correct and any anached copy of this page if paying  Name of Person Signing, Reg. No. 40,767  Mail documents to be recorded with required cover sheet information to:  Commissioner of Patents and Trademarks, Office of Public Records,  Crystal Gateway 4, Room 335, Washington, D.C. 20231  CERTIFICATE OF MAILING  37 CF R 18  L neroby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class and reademarks of Patents and Trademarks. Office of Public Records, Crystal Gateway 4. Room 335 Washington  Do Not Use this page if paying the copy of this page if paying the copy of the organization of Patents and Trademarks, Office of Public Records, Crystal Gateway 4. Room 335 Washington  Certificate OF Mailing  37 CF R 18  Significant postage as First Class and Trademarks of Patents and Trademarks. Office of Public Records, Crystal Gateway 4. Room 335 Washington  Commissioner of Patents and Trademarks. Office of Public Records, Crystal Gateway 4. Room 335 Washington  Commissioner of Patents and Trademarks. Office of Public Records, Crystal Gateway 4. Room 335 Washington	Application No.(s):	B. Patent No.(s):	
Name: McDonnell Boehnen Hulbert & Berghoff  32 <sup>nd</sup> Floor, 300 South Wacker Drive  City: Chicago State: Illinois Zip 60606  City: Chicago State: Illinois Zip 60606  Do NOT USE THIS SPACE  Statement and signature  10 the best of my knowledge and belief, the foregoing information is true and correct and any anached copy of this page if paying  Name of Person Signing, Reg. No. 40,767  Mail documents to be recorded with required cover sheet information to:  Commissioner of Patents and Trademarks, Office of Public Records,  Crystal Gateway 4, Room 335, Washington, D.C. 20231  CERTIFICATE OF MAILING  37 CF R 18  L neroby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class and reademarks of Patents and Trademarks. Office of Public Records, Crystal Gateway 4. Room 335 Washington  Do Not Use this page if paying the copy of this page if paying the copy of the organization of Patents and Trademarks, Office of Public Records, Crystal Gateway 4. Room 335 Washington  Certificate OF Mailing  37 CF R 18  Significant postage as First Class and Trademarks of Patents and Trademarks. Office of Public Records, Crystal Gateway 4. Room 335 Washington  Commissioner of Patents and Trademarks. Office of Public Records, Crystal Gateway 4. Room 335 Washington  Commissioner of Patents and Trademarks. Office of Public Records, Crystal Gateway 4. Room 335 Washington			
Name: McDonnell Boehnen Hulbert & Berghoff  32 <sup>nd</sup> Floor, 300 South Wacker Drive  City: Chicago  State: Illinois  Zip: 60606  Do NOT USE THIS SPACE  Signature  For the best of my knowledge and belief, the foregoing information is true and correct and any anachedge in the copy of this page if pas in  Amir N. Penn  Name of Person Signing, Reg. No. 40,767  Mail documents to be recorded with required cover sheet information to:  Commissioner of Patents and Trademarks, Office of Public Records,  Crystal Gateway 4, Room 335, Washington, D.C. 20231  CERTIFICATE OF MAILING  37 C F R 18  I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class and reademarks. Office of Public Records, Crystal Gateway 4, Room 335, Washington  Commissioner of Patents and Trademarks. Office of Public Records, Crystal Gateway 4, Room 335, Washington  Certificate OF Mailing  37 C F R 18  Linereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class and reademarks. Office of Public Records, Crystal Gateway 4, Room 335, Washington  Commissioner of Patents and Trademarks. Office of Public Records, Crystal Gateway 4, Room 335, Washington  Commissioner of Patents and Trademarks. Office of Public Records, Crystal Gateway 4, Room 335, Washington  Commissioner of Patents and Trademarks. Office of Public Records, Crystal Gateway 4, Room 335, Washington  Commissioner of Patents and Trademarks. Office of Public Records, Crystal Gateway 4, Room 335, Washington			,
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City: Chicago  State: Illinois  Zip: 60606  Deposit account number: 13.2490 (Attach duplicate copy of this page if paxin)  DO NOT USE THIS SPACE  Do Not use this page if paxin,  Amir N. Penn  Name of Person Signing, Reg. No. 40,767  Mail documents to be recorded with required cover sheet information to:  Commissioner of Patents and Trademarks, Office of Public Records,  Crystal Gateway 4, Room 335, Washington, D.C. 20231  CERTIFICATE OF MAILING 37 C F R 1.8  I neroby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class and trademarks. Office of Public Records. Crystal Gateway 4 Room 335 Washington  Commissioner of Patents and Trademarks. Office of Public Records. Crystal Gateway 4 Room 335 Washington  Call of Commissioner of Patents and Trademarks. Office of Public Records. Crystal Gateway 4 Room 335 Washington  Commissioner of Patents and Trademarks. Office of Public Records. Crystal Gateway 4 Room 335 Washington  Commissioner of Patents and Trademarks. Office of Public Records. Crystal Gateway 4 Room 335 Washington	32 <sup>nd</sup> Floor, 300 South Wacker Drive	Inclosed	
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Crystal Gateway 4, Room 335, Washington, D.C. 20231  Crystal Gateway 4, Room 335, Washington, D.C. 20231  CERTIFICATE OF MAILING 37 C F R 1 8  Lineroby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class and deposited to Commissioner of Patents and Trademarks Office of Public Records, Crystal Gateway 4, Room 335, Washington Delow  CONTROL OF THE CONTROL OF	Name of Person Signing, Reg. No. 40,767	fotal number of pages melt	ading cover sheet, attachment
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PATENT REEL: 011536 FRAME: 0076

## **ASSIGNMENT**

Case No.: 99,711 Serial No.:

Inventor: Youhong Lu

Date of Execution of Application:

Filing Date:

In consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assigns to:

## 3Com Corporation, a corporation of the state of Delaware

its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled:

## A SYSTEM AND METHOD FOR ECHO CANCELLATION

and identified as:

## Case No. 99,711

in the offices of McDonnell Boehnen Hulbert & Berghoff and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorizes and requests the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known, and the date of execution of the application.

The undersigned warrants himself to be the owner of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrants that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations the undersigned hereby agrees, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional,

- 1 -

PATENT REEL: 011536 FRAME: 0077 continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application, and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations the undersigned authorizes said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agrees, upon the request of said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

WITNESS my hand and seal this 29 day of Jan.

State of

County of

The foregoing instrument was acknowledged before me this

2001 by Youhong Lu.

OFFICIAL SEAL CHRISTINE N. LECINSKI Notary Public, State of Illinois My Commission Exp. 11/13/2004

RECORDED: 02/05/2001

PATENT REEL: 011536 FRAME: 0078