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To the Horocable Commissioner of Patents and Trademarks. Pease record the attached original documents or copy thereof. 1. Name of conveying party(ies):	Form PTO-1595 (Rev. 03/01) OMB No. 0651-0027 (exp. 5/31/2002) Tab settings ⇔ ⇔ ▼ ▼ 10	U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office ty Docket No.: FUJH 19.264 V P
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3. Nature of conveyance: Assignment Street Address Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, Japan City: State: Zip: Additional name(s) & address(es) attached? Yes No A 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 Application No.(s) B. Patent No.(s) Additional number of applications and patents involved: B. Patent No.(s) 5. Name and address of party to whom correspondence concerning document should be mailed: Rosenman & Colin LLP Name: IP Department 15th FI. Internal Address: Street Address: 575 Madsion Avenue 8. Deposit account number: Street Address: ON ONT 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. Harris A. Walin Name of Person Signing Street Address: Date	HIDEAKI NEGAWA MRD 1.2/17(0)	Name: FUJITSU LIMITED 5
Security Agreement Change of Name Other Street Address Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, Japan City: State: Zip: Additional name(s) & address(es) attached? No 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: Additional numbers attached? No.(s) B. Patent No.(s) B. Patent No.(s) S. Name and address of party to whom correspondence concerning document should be mailed: Rosenman & Colin LLP Name: IP Department 15th FI. Internal Address: Street Address: December 17. 2001 Additional numbers attached? New York Zip: To No 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 riginal document. Harris & Wolin Name of Person Signing Tin, Kamikodanaka 4-chome Street Address: Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, Japan 1-1, Kamikodanaka 4-chome Street Address: Nakahara-ku, Kawasaki-shi, Kanagawa 211-8588, Japan City: State: Zip: Additional name(s) & address(es) attached? No No Beccember 17. 2001 Total fee (37 CFR 3.41)		
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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 Application No.(s) B. Patent No.(s) Additional numbers attached? Yes No 6. Total number of applications and patents involved: Name: IP Department 15th FI. Internal Address: IP Department 15th FI. Internal Address: Street Address: New York City: State: Do Not Use this space (Attach duplicate copy of this page if paying by deposit account) Do Not Use this space 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. Harris A. Wolin Name of Person Signing Date	DECEMBER 7, 2001	City:State:Zip:
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5. Name and address of party to whom correspondence concerning document should be mailed: Rosenman & Colin LLP Name: IP Department 15th FI. Internal Address: Internal Address: Internal Address: IP Department 15th FI. Internal Address: Internal Address: IP Department 15th FI. Internal Address: IP Department 15th FI. Internal Address: IP Department 15th FI. Internal Address: Internal Address: IN Department 15th FI. Internal Address: Internal Address: Internal Address: Internal Address: Internal Address: IN Department 15th FI. Internal Address: Internal Address: Internal Address: Internal Address: IN Department 15th FI. Internal Address: Internal Address: Internal Address: IN Department 15th FI. Internal Address: IN	If this document is being filed together with a new app A. Patent Application No.(s)	lication, the execution date of the application is: ²⁰⁰¹
Concerning document should be mailed: Rosenman & Colin LLP Name: IP Department 15th FI. Internal Address: IP Department 15th FI. Internal Address: Street Address: Street Address: New York City: State: New York 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. Harris A. Wolin Name of Person Signing 7. Total fee (37 CFR 3.41)\$ Authorized to be charged to deposit account 8. Deposit account number: (Attach duplicate copy of this page if paying by deposit account) (Attach duplicate copy of this page if paying by deposit account) Do NOT USE THIS SPACE	Additional numbers a	ttached? 📮 Yes 📮 No
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V	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. December 17, 2001	
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10024075 Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231 12/31/2001 GTON11 00000284 501290

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> **PATENT REEL: 012397 FRAME: 0138**

ASSIGNMENT

Docket No. FUJH 19.264 WHEREAS, the below named inventor, ASSIGNOR, has made a certain new and useful invention in: MULTICAST COMMUNICATION SYSTEM for which (check one) [X] an application is being filed concurrently herewith, an application for a Patent of the United States was filed on and given Application Serial No. FUJITSU LIMITED having a place of business at 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa, 211-8588 Japan is desirous of obtaining the entire right, title and interest in, to and under the said invention and the said application. NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, the said ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic law's of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventor's certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of inclustrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument; and ASSIGNOR covenants and agrees that he has full right to convey the entire interest herein assigned, and has not executed, and will not execute, any agreement in conflict herewith; and ASSIGNOR further covenants and agrees that he will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries. Full name of sole or first inventor Hideaki NEGAWA Date <u>07/12/2001</u> Inventor's Signature Hideaki Negawa Citizenship_Japan Residence Kawasaki, Japan Post Office Address c/oFUJITSU LIMITED, 1-1, Kamikodanaka 4-chome, Nakahara-ku, Kawasaki-shi, Kanagawa, 211-8588 Japan Full name of second joint inventor, if any_____ Second Inventor's Signature _____ Date ____ _____Citizenship_____ Residence Post Office Address Full name of third joint inventor, if any_____ Third Inventor's Signature Residence Post Office Address Full name of fourth joint inventor, if any_____

fourth Inventor's Signature ______ Date _____

Residence

Post Office Address

RECORDED: 12/17/2001

PATENT REEL: 012397 FRAME: 0139