FOR	M PTO-1595
(D	00/05

(Rev. 08/05)

103358410

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

Docket No.: 075880-0046 To the Director of the U. S. Patent and Trademark Office: Please record the attached documents or the new address(es) below. 1. Name of Conveying Party(ies) 2. Name and address of receiving party(ies) BROTHER KOGYO KABUSHIKI KAISHA Wataru MIZUMUKAI Name: Internal Address: Additional name(s) of conveying party(ies) attached? Yes No 15-1 Naeshiro-cho, Mizuho-ku, Nagoya 3. Nature of Conveyance/Execution Date(s) Address: December 25, 2006 Execution Date(s): Aichi, 467-8561 Japan Merger ☐ Change of Name Security Agreement Joint Research Agreement Government Interest Assignment Executive Order 9424, Confrmatory License This document is being filed together with a new application 4. Application or patent number(s): B. Patent No(s). A. Patent Application No(s). Additional numbers attached? Yes No 5. Name and address to whom correspondence concerning 6. Total number of applications and patents document should be mailed: involved: \$40.00 Name: MCDERMOTT WILL & EMERY LLP 7. Total fee (37 CFR 1.21(h) & 3.41) Authorized to be charged by credit card Internal Address: Authorized to be charged to deposit account Enclosed 600 13th Street, N.W. Street Address: None required (government interest not affecting title)nt D. C. Zip: 20005-3096 Washington State: City: 8. Payment Information: 202.756.8000 Phone Number: Fax Number: 202,756,8087 Credit Card Last 4 Numbers a. Email Address: **Expiration Date** Deposit Account Number 500417 Authorized User Name Lene 3. Rubin 9. Signature. December 29, 2006 Gene Z. Rubinson, 33,351 Date Signature Name and Registration No. of Person Signing Total number of pages including cover sheet, attachments and documents:

OMB No. 0651-0027 (exp. 6/30/2008)

_ 00000012 500A17 01/08/2007 MJAMO1

11647405

01 FC:8021

40.00 DA

2006-01816 US/57RH15

ASSIGNMENT

Name(s) of Inventor(s) (4) (4) (6) In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does as defined as U.S.C. \$100, in the invention, and in all applications for patent including application (s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as 11) Insert Insert Date of Signing of (12) Communication Apparatus and Facsimile Communication Method determined to the undersigned has (have) executed an application for patent in the United States of America 12) Insert Date of Signing of (12) on						
Name(s) of Inventor(s) (3) (4) (6) (8) In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to Possignee (4) (5) (5) (6) (7) (7) (8) Insert Address of Assignee (10) Insert Address of Assignee (11) Insert Assignee (12) Insert Address of Assignee (13) Insert Assignee (14) Insert Assignee (15) Insert Assignee (16) Insert Assignee (17) Insert Assignee (18) Insert Assignee (19) Insert Assignee (19) Insert Assignee (11) Insert Identification of Invention out has Title, Case Number, or Foreign Application Number (Attorney Docket No. O75880-0046) (Attorney Docket No.			(1)	Wataru MIZUMUKAI (5)		
Name(s) of Inventor(s) (3) (4) (6) (8) In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to Possignee (4) (5) (5) (6) (7) (7) (8) Insert Address of Assignee (10) Insert Address of Assignee (11) Insert Assignee (12) Insert Address of Assignee (13) Insert Assignee (14) Insert Assignee (15) Insert Assignee (16) Insert Assignee (17) Insert Assignee (18) Insert Assignee (19) Insert Assignee (19) Insert Assignee (11) Insert Identification of Invention out has Title, Case Number, or Foreign Application Number (Attorney Docket No. O75880-0046) (Attorney Docket No.	(1-8)	Insert	(2)	(6)		
In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations pald to each of the undersigned, the undersigned agree(s) to assign, and hereby does and hereby does and hereby does and hereby			(3)			
In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, and hereby d			(4)			
Assignee (9) BROTHER ROGYO KABUSHIKI KAISHA (10) Insert Address of Assignee (10) Insert Address of Assignee (10) Insert Address of Assignee (10) Insert Address of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, non-provisional, continuation, substitute, and relessue applications(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as (Attorney Docket No. O75880-0046) (America (I2) Insert Date of Signing of (12) on Docket No. O75880-0046) (I3) Alternative Identification for filed applications (I3) U.S. application Serial Number Identification for filed applications of the Invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications for the Invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection or confinuation or division thereof, or any patent or reissue application or confinuation or division thereof, or any patent or reissue application beard thereof, or the invention, and any patent or reissue application beard thereof, or the invention, and accordate with the Assignee in every way possible in obtaining evidence and going forward with such interference. (3) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared oncerning any application or confinuation or division thereof, or any patent or reissue application based thereon, for the invention, and accordate with the Assignee in every way possible in obtaining evidence and going forward with such interference. (3) The undersigned agree(s) to execute all papers and documents and perform and article applications of the International Convention for Protection of Industrial Property or similar agreements. (4) The und				In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign,		
of Assignee (10) 15-1 Naeshtiro-cho, Mizuho-ku, Nagoya, Aichi 487-5851, Japan (nereianater designated as the Assignee) the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, substitute, and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as the invention such as Title, Case Number, or Foreign Application Number (Attorney Docket No. 075880-0046) (Attorney Docket No.	(9)					
America as defined in 35 U.S.C. § 100, in the invention, and in all applications for patient including any and all provisional, incorprovisional, divisional, continuation, substitute, and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as 111) Insert Identification of Invention such as Title, Case Number, or Foreign Application Number. (Attorney Docket No. 075880-0046), for which the undersigned has (have) executed an application for patent in the United States of America 112) Insert Date of Signing of (12) on Organization Serial Number Identification for filed applications for filed applications for filed applications for filed applications of the Invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignees may deem necessary. 2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared onceming any application or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and or cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference. 3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements. 4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee. 5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from asid application(s) to the said Assignee, as Assignee of the entire interest, and hereby covenants that be has (they have) full right to convey the	10)		(10)	15-1 Naeshiro-cho, Mizuho-ku, Nagoya, Aichi 467-8561, Japan		
Identification of Invention such as Title, Case Number, or Foreign Application Number. (Attorney Docket No. 075880-0046) for which the undersigned has (have) executed an application for patent in the United States of America 12) Insert Date of Signing of (12) on Dec. 25 2006 Application 13) Alternative (13) U.S. application Serial Number Identification for filed applications filed 15) The undersigned agree(s) to execute all papers necessary in connection with any application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignees may deem necessary. 2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared oncoperate with the Assignee in every way possible in obtaining evidence and going forward with such interference. 3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the international Convention for Protection of Industrial Property or similar agreements. 4) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the international Convention for Protection of Industrial Property or similar agreements. 4) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the Linked States patent to the Assignee. 5) The undersigned hereby grant(s) the firm of McDERMOTT WILL & EMERY LLP the power to insert on this assignment to reader the substance of the United States Patent and readernative Michael St				America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, substitute, and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may		
Application Number (Attorney Docket No. 075880-0046) for which the undersigned has (have) executed an application for patent in the United States of America 12) Insert Date of Signing of (12) on Dec. 25 2006 Application Application for filed applications filed 13) Alternative (13) U.S. application Serial Number Identification for filed applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignees may deem necessary. 2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning any application or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and occoperate with the Assignee in every way possible in obtaining evidence and going forward with such interference. 3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements. 4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue reexamination a grant of a valid United States patent to the Assignee. 5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and hereby covenants that the has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute. 6) The undersigned hereby grant(s) the firm of McDERMOTT WILL & EMERY LLP the power to insert on this assignment replements in conflict herewith. 6) The undersigned hereby grant(s) the firm of McDERMOTT will & EMERY LLP the power to insert on this assignment replements.	11)	Identification of Invention	(11)	Communication Apparatus and Facsimile Communication Method		
Insert Date of Signing of (12) on Dec. 25 2006 Application Application Application (13) Alternative (13) U.S. application Serial Number Identification for filed applications filed 1) The undersigned agree(s) to execute all papers necessary in connection with any application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignees may deem necessary. 2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared oncerning any application or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and occoperate with the Assignee in every way possible in obtaining evidence and going forward with such interference. 3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the international Convention for Protection of Industrial Property or similar agreements. 4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee. 5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assignee, and that he has (they have) not executed, and will not execute. In undersigned hereby grant(s) the firm of McDERMOTT WILL & EMERY LLP the power to insert on this assignment for ademark Office for recordation of this document. In witness whe				(Attorney Docket No. 075880-0046)		
Signing of Application (13) Alternative (13) U.S. application Serial Number Identification for filed applications filed 1) The undersigned agree(s) to execute all papers necessary in connection with any application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignees may deem necessary. 2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning any application or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and or cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference. 3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements. 4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee. 5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, my agreements in conflict herewith. 6) The undersigned hereby grant(s) the firm of McDERMOTT WILL & EMERY LLP the power to insert on this assignment frademark Office for recordation of this document. In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).						
Identification for filed applications filed 1) The undersigned agree(s) to execute all papers necessary in connection with any application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignees may deem necessary. 2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning any application or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference. 3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements. 4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee. 5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and hereby covenants that the has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, my agreements in conflict herewith. 6) The undersigned hereby grant(s) the firm of McDERMOTT WILL & EMERY LLP the power to insert on this assignment for ademark Office for recordation of this document. In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).	12)	Signing of	(12)	on <u>Dec. 25, 2006</u>		
or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignees may deem necessary. 2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning any application or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and of cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference. 3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the international Convention for Protection of Industrial Property or similar agreements. 4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee. 5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, my agreements in conflict herewith. 6) The undersigned hereby grant(s) the firm of McDERMOTT WILL & EMERY LLP the power to insert on this assignment of grademark Office for recordation of this document. In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).	13)	Identification for	(13)			
With Mil Pin (SEAL)	concernico coopee connecti or reexal he Unite he has (i any agre	ne applications for the happlications and pate 2) The undersigned ing any application or a rate with the Assigned on with claims or provided in the claims of the undersigned mination a grant of a vestion of the undersigned of the claims of the undersigned in the claims in conflict here is the undersigned in the unde	inventents as agree in evil agree isions agr	ition, and any patent(s) issuing thereon, and also to execute separate assignments in connection is the Assignees may deem necessary. (a) to execute all papers necessary in connection with any interference which may be declared that or division thereof, or any patent or reissue application based thereon, for the invention, and therefore any possible in obtaining evidence and going forward with such interference. (a) to execute all papers and documents and perform any act which may be necessary in of the international Convention for Protection of Industrial Property or similar agreements. (a) to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue nited States patent to the Assignee. (b) and request(s) the Commissioner of Patents to issue any and all Letters Patents of application(s) to the said Assignee, as Assignee of the entire interest, and hereby covenants that the entire interest herein assigned, and that he has (they have) not executed, and will not execute, by grant(s) the firm of McDERMOTT WILL & EMERY LLP the power to insert on this assignment of the necessary or desirable in order to comply with the rules of the United States Patent and his document.		

Date	Dec. 25, 2006	Name of inventor	Watary Mynmukai	(SEAL)
Date		Name of Inventor		(SEAL)
Date		Name of Inventor		(SEAL)
Date		Name of inventor	· · · · · · · · · · · · · · · · · · ·	(SEAL)
Date		Name of Inventor		(SEAL)

PATENT REEL: 018750 FRAME: 0667