Atty Docket No.:

FORM PTO-1595 1-31-92



09-08-2003



102543567

S. DEPARTMENT OF COMMERCE Patent and Trademark Office

To the Honorable Commissioner of Patents and Tra-	demarks. Please record the attached original documents or copy thereof.
1. Name of conveying party(ies): Shinichi ISOBE, Ken IGARASHI, Atsushi IWASAKI, Kenji NISHIMURA and Takasi KOSHIMIZU Additional name(s) of conveying party(ies) attached 3. Nature of Conveyance:	2. Name and address of receiving party(ies): Name: NTT DoCoMo, INC. Address: 11-1, Nagatacho 2-chome, Chiyoda-ku, Tokyo 100-6150, JAPAN
☐ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other: Record to Correct 5 th Assignor's Name Assignment previously recorded on Reel/Frame 013849/0066.	on an
Execution Date: February 25, 2003	Additional name(s) and address(es) attached? □Yes ■No
4. Application number(s) or patent number(s):	multiplation also accounting data affairs of the control of
If this document is being filed together with a new a	
A. Patent Application No.(s) 10/379,804	B. Patent No.(s)
Addition	al numbers attached? □Yes ■No
5. Name and address of party to whom corresponder concerning document should be mailed:	nce 6. Total applications and patents involved: 1
	7. Total fee (37 CFR 3.41): \$40.00 ■ Enclosed □ Authorized to be charged to deposit account
22850 Tel. (703) 413-3000 Fax. (703) 413-2220	8. Deposit account number: 15-0030 (Attach duplicate copy of this page if paying by deposit account)
DO	NOT USE THIS SPACE
9. Statement and signature To the best of my knowledge and belief, the forego of the original document.	oing information is true and correct and any attached copy is a true copy
Masayasu Mori	bough A. Scafetta k. Sept. 3, 2003
Name of Person Signing	Signature Date
Registration Number: 47,301	Joseph A. Scafetta, Jr. Registration No. 26,803 including this cover sheet: 6
/2003 ECDOPER 00000005 10379804	including this cover sheet.
::8021	Oo not detach this portion
Mail documents to be recorded with required cover	sheet information to:
Director of the Uni	ited States Patents and Trademark Office

Director of the United States Patents and Trademark Office Mail Stop Assignment Recordation Services Alexandria, Virginia 22313

> PATENT REEL: 014450 FRAME: 0285

Atty Docket No.: 234782US90/sdc	η ά -18	1-2003		
FORM PTO-1595 1-31-52			U.S. DEPARTMENT (Patent and	OF COMMERCE Trademark Office
To the Honorable Commissioner of Patents and	1023	\$858	nal documents or copy there	eof.
1. Name of conveying party(ies): 3.6 Shinichi ISOBE, Ken IGARASHI, Atsushi IWAS Kenji NISHIMURA, and Takashi KOSHIMIZU Additional name(s) of conveying party(ies) attache	,	Name: NTT DoCo Address: 11-1, Nagat	of receiving party(ies): Mo, Inc. tacho 2-chome, Chiyoda-ku, -6150, Japan	10/379804
3. Nature of Conveyance:				ט 🚟
■ Assignment□ Merger□ Security Agreement□ Change of Na□ Other	ame			
Execution Date: February 25, 2003		Additional name(s) an	d address(es) attached?	Yes 🖪 No
4. Application number(s) or patent number(s):If this document is being filed together with a new	application, the ex	1037980 eccution date of the app	•	03
A. Patent Application No.(s)		B. Patent No.(s)		
Addition	nal numbers attache	ed? ☐ Yes ■ No		
5. Name and address of party to whom correspond concerning document should be mailed:	lence	6. Total applications	and patents involved: 1	
22850		7. Total fee (37 CFR Enclosed Authorized	3.41): \$40.00 I to be charged to deposit ac	count
Tel. (703) 413-3000 Fax. (703) 413-2220		8. Deposit account nu (Attach duplicate copy of	umber: 15-0030 this page if paying by deposit according	unt)
	DO NOT USE TH	HIS SPACE		
9. Statement and signature				
To the best of my knowledge and belief, the foregopy of the original document.	going information	is true and correct and	d any attached copy is a tru	e
Masayasu Mori	LAN.	m World	3/6/03	
Name of Person Signing	• • • • • • • • • • • • • • • • • • • •	ምMcClelland on Number 21,124	Date	
Registration Number: 47,301	negistratic	on realition 21,12	•	
Total number	of pages including	this cover sheet: 3		
	Do not detach th	is portion		
Mail documents to be recorded with required cover				
Commi	issioner of Patent Box Assigni	s and Trademarks ments		
11/2003 MBIZUNES 00000074 10379804	Washington, D			
TO ADD 40.00 GP				

PATENT REEL: 014450 FRAME: 0286

ASSIGNMENT

Whereas, I/we,		
Nome	Address	
<u>Name</u>	<u>Address</u> c/o Intellectual Property Department, NTT DoCoN	do Inc
Shinichi ISOBE	Sanno Park Tower, 11-1, Nagata-cho 2-ch Chiyoda-ku, Tokyo 100-6150 Japan	
	c/o Intellectual Property Department, NTT DoCoN	to, Inc.,
Ken IGARASHI	Sanno Park Tower, 11-1, Nagata-cho 2-ch Chiyoda-ku, Tokyo 100-6150 Japan	ome,
	c/o Intellectual Property Department, NTT DoCoN	1o, Inc.,
Atsushi IWASAKI	Sanno Park Tower, 11-1, Nagata-cho 2-ch Chiyoda-ku, Tokyo 100-6150 Japan	ome,
	c/o Intellectual Property Department, NTT DoCoM	1o, Inc.,
Kenji NISHIMURA	Sanno Park Tower, 11-1, Nagata-cho 2-ch Chiyoda-ku, Tokyo 100-6150 Japan	ome,
	c/o Intellectual Property Department, NTT DoCoN	lo, Inc.,
Takasi KOSHIMIZU	Sanno Park Tower, 11-1, Nagata-cho 2-ch Chiyoda-ku, Tokyo 100-6150 Japan	ome,
,	NICATION SYSTEM, AND HANDOVER CONT	
	, Serial No.	
Whereas	, Seliai No.	; and
	acho 2-chome, Tokyo 100-6150 Japan	
animana), donizan ta namuiza tl		
atents to be obtained therefor, NOW THEREFORE, be ereby acknowledged, I/WE, as ansfer, and set over unto the sis invention and this application hich may be granted thereon, atents and Trademarks of the	it known that, for good and valuable considera s assignor(s), have sold, assigned, transferred, assignee, its lawful successors and assigns, Mon, and all divisions, and continuations thereof, and all reissues thereof; and I/WE hereby autle United States to issue all Letters Patent for this	tion from assignee, the receipt of which is and set over, and do hereby sell, assign, Y/OUR entire right, title, and interest in and to and all Letters Patent of the United States norize and request the Commissioner of
atents to be obtained therefor, NOW THEREFORE, be ereby acknowledged, I/WE, as ansfer, and set over unto the asis invention and this application in the same of th	; it known that, for good and valuable considera s assignor(s), have sold, assigned, transferred, assignee, its lawful successors and assigns, M on, and all divisions, and continuations thereof, and all reissues thereof; and I/WE hereby autle United States to issue all Letters Patent for thi	tion from assignee, the receipt of which is and set over, and do hereby sell, assign, Y/OUR entire right, title, and interest in and to and all Letters Patent of the United States norize and request the Commissioner of s invention to assignee, its successors and further consideration, communicate with his invention and testify in any legal iver all papers that may be necessary or and assigns, execute all divisional, o everything possible to aid assignee, its is invention in the United States, it being
atents to be obtained therefor, NOW THEREFORE, be ereby acknowledged, I/WE, as ansfer, and set over unto the asis invention and this application in the signs, in accordance with the AND, I/WE HEREBY further assigned, its successors and as a coceeding, sign all lawful paper esirable to perfect the title to the continuation, and reissue applications and assigns, to obtain derstood that any expense in signs.	it known that, for good and valuable considerals assignor(s), have sold, assigned, transferred, assignee, its lawful successors and assigns, Mon, and all divisions, and continuations thereof, and all reissues thereof; and I/WE hereby aution the United States to issue all Letters Patent for this eterms of this Assignment; ther covenant and agree that I/WE will, without signs, any facts known to ME/US respecting the ers when called upon to do so, execute and delens invention in said assignee, its successors are cations, make all rightful oaths and generally do ain and enforce proper patent protection for the cident to the execution of such papers shall be	tion from assignee, the receipt of which is and set over, and do hereby sell, assign, Y/OUR entire right, title, and interest in and to and all Letters Patent of the United States norize and request the Commissioner of s invention to assignee, its successors and further consideration, communicate with his invention and testify in any legal iver all papers that may be necessary or and assigns, execute all divisional, to everything possible to aid assignee, its is invention in the United States, it being a borne by the assignee, its successors and
atents to be obtained therefore NOW THEREFORE, be be preby acknowledged, I/WE, as ansfer, and set over unto the action is invention and this application in the signs, in accordance with the signs, in accordance with the signse, its successors and as acceeding, sign all lawful paper estrable to perfect the title to the incressors and assigns, to obtain a condition of the independent of the i	it known that, for good and valuable considerals assignor(s), have sold, assigned, transferred, assignee, its lawful successors and assigns, Mon, and all divisions, and continuations thereof, and all reissues thereof; and I/WE hereby aution the United States to issue all Letters Patent for this eterms of this Assignment; ther covenant and agree that I/WE will, without signs, any facts known to ME/US respecting the ers when called upon to do so, execute and delens invention in said assignee, its successors are cations, make all rightful oaths and generally do ain and enforce proper patent protection for the cident to the execution of such papers shall be	tion from assignee, the receipt of which is and set over, and do hereby sell, assign, Y/OUR entire right, title, and interest in and to and all Letters Patent of the United States norize and request the Commissioner of s invention to assignee, its successors and further consideration, communicate with his invention and testify in any legal iver all papers that may be necessary or and assigns, execute all divisional, o everything possible to aid assignee, its is invention in the United States, it being
atents to be obtained therefore NOW THEREFORE, be ereby acknowledged, I/WE, as ansfer, and set over unto the abis invention and this application in the same of th	it known that, for good and valuable considerals assignor(s), have sold, assigned, transferred, assignee, its lawful successors and assigns, Mon, and all divisions, and continuations thereof, and all reissues thereof; and I/WE hereby aution the United States to issue all Letters Patent for this eterms of this Assignment; ther covenant and agree that I/WE will, without assigns, any facts known to ME/US respecting the swhen called upon to do so, execute and delinis invention in said assignee, its successors are cations, make all rightful oaths and generally do ain and enforce proper patent protection for the incident to the execution of such papers shall be	tion from assignee, the receipt of which is and set over, and do hereby sell, assign, Y/OUR entire right, title, and interest in and to and all Letters Patent of the United States norize and request the Commissioner of s invention to assignee, its successors and further consideration, communicate with his invention and testify in any legal iver all papers that may be necessary or and assigns, execute all divisional, a everything possible to aid assignee, its is invention in the United States, it being a borne by the assignee, its successors and
atents to be obtained therefore NOW THEREFORE, be been acknowledged, I/WE, as ansfer, and set over unto the action is invention and this application in the signs, in accordance with the AND, I/WE HEREBY further acceptance, its successors and as acceeding, sign all lawful paper estrable to perfect the title to the increasors and assigns, to obtain a continuation, and reissue applications and assigns, to obtain the increasors and assigns, to obtain a continuation in the increasors and assigns. INVENTORS INVENTORS	it known that, for good and valuable considerals assignor(s), have sold, assigned, transferred, assignee, its lawful successors and assigns, Mon, and all divisions, and continuations thereof, and all reissues thereof; and I/WE hereby aution the United States to issue all Letters Patent for this eterms of this Assignment; ther covenant and agree that I/WE will, without assigns, any facts known to ME/US respecting the ers when called upon to do so, execute and delens invention in said assignee, its successors are cations, make all rightful oaths and generally do and enforce proper patent protection for the cident to the execution of such papers shall be successed.	tion from assignee, the receipt of which is and set over, and do hereby sell, assign, Y/OUR entire right, title, and interest in and to and all Letters Patent of the United States norize and request the Commissioner of s invention to assignee, its successors and further consideration, communicate with his invention and testify in any legal iver all papers that may be necessary or and assigns, execute all divisional, a everything possible to aid assignee, its is invention in the United States, it being a borne by the assignee, its successors and DATE SIGNED February 25, 2003
atents to be obtained therefore NOW THEREFORE, be be preby acknowledged, I/WE, as ansfer, and set over unto the asis invention and this application in the signs, in accordance with the AND, I/WE HEREBY further assigned, its successors and as a receeding, sign all lawful paper period in the signs, in accordance with the signs, in accordance with the signs, in accordance with the signs, in accessors and as a receeding, sign all lawful paper period in the signs, and reissue applicances and assigns, to obtain the signs. INVENTORS INVENTORS	it known that, for good and valuable considerals assignor(s), have sold, assigned, transferred, assignee, its lawful successors and assigns, Mon, and all divisions, and continuations thereof, and all reissues thereof; and I/WE hereby aution the United States to issue all Letters Patent for this eterms of this Assignment; ther covenant and agree that I/WE will, without assigns, any facts known to ME/US respecting the swhen called upon to do so, execute and delinis invention in said assignee, its successors are cations, make all rightful oaths and generally do ain and enforce proper patent protection for the incident to the execution of such papers shall be	tion from assignee, the receipt of which is and set over, and do hereby sell, assign, Y/OUR entire right, title, and interest in and to and all Letters Patent of the United States norize and request the Commissioner of s invention to assignee, its successors and further consideration, communicate with his invention and testify in any legal iver all papers that may be necessary or and assigns, execute all divisional, a everything possible to aid assignee, its is invention in the United States, it being a borne by the assignee, its successors and
atents to be obtained therefore NOW THEREFORE, be been acknowledged, I/WE, as ansfer, and set over unto the action is invention and this application in the same of the same o	it known that, for good and valuable considerals assignor(s), have sold, assigned, transferred, assignee, its lawful successors and assigns, Mon, and all divisions, and continuations thereof, and all reissues thereof; and I/WE hereby aution the United States to issue all Letters Patent for this eterms of this Assignment; ther covenant and agree that I/WE will, without assigns, any facts known to ME/US respecting the ers when called upon to do so, execute and delens invention in said assignee, its successors are cations, make all rightful oaths and generally do and enforce proper patent protection for the cident to the execution of such papers shall be successed.	tion from assignee, the receipt of which is and set over, and do hereby sell, assign, Y/OUR entire right, title, and interest in and to and all Letters Patent of the United States norize and request the Commissioner of s invention to assignee, its successors and further consideration, communicate with his invention and testify in any legal iver all papers that may be necessary or and assigns, execute all divisional, a everything possible to aid assignee, its is invention in the United States, it being a borne by the assignee, its successors and DATE SIGNED February 25, 2003

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. § 261)

4):

Name:

Page 1 of 2

February 25, 2003

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. § 261)



234782 0390

AUGUST 05, 2003

PTAS

OBLON, SPIVAK, MCCLELLAND, MAIER & NEUST 1940 DUKE STREET ALEXANDRIA, VA 22314

Under Secretary of Commerce For Intellectual Property and Director of the United States Patent and Trademark Office Washington, DC 20231 www.uspto.gov



102395858A

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 03/06/2003

REEL/FRAME: 013849/0066

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

ISOBE, SHINICHI

DOC DATE: 02/25/2003

ASSIGNOR:

IGARASHI, KEN

DOC DATE: 02/25/2003

ASSIGNOR:

IWASAKI, ATSUSHI

DOC DATE: 02/25/2003

ASSIGNOR:

NISHIMURA, KENJI

DOC DATE: 02/25/2003

ASSIGNOR:

KOSHIMIZU, TAKASHI

DOC DATE: 02/25/2003

ASSIGNEE:

NTT DOCOMO, INC.

11-1, NAGATACHO 2-CHOME, CHIYODA-

KU

TOKYO 100-6150, JAPAN

RECEIVED: 8-7-03
OBLON, SPIVAK, McCLELLAND
MAIER & NEUSTADT, P.C.

DOCKETING DEPT.
Initials/Date Docketed:

Type of Resp(s): __

Due Date(s):

REEL: 014450 FRAME: 0289

• 013849/0066 PAGE 2

SERIAL NUMBER: 10379804

PATENT NUMBER:

FILING DATE: 03/06/2003

ISSUE DATE:

TARA WASHINGTON, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS

RECORDED: 09/03/2003