JUL 1 1 2013

U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office

mpp 07-11-13

PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached

07/15/2013

1. Name of conveying party(ies) 1. Yasuhiro NAKA	2. Name and ad 103550311 Name: Fuji Electric Co., Ltd.	
2. Kouetsu TAKAYA	-	
3. Kenji SUZUKI	Internal Address:	
4. Takahiro TAGUCHI Additional name(s) of conveying party(ies) attached? Yes No		
3. Nature of conveyance/Execution Date(s):	Street Address: 1-1 Tanabeshinden, Kawasaki-ku	
Execution Date(s) July 8, 2013; July 8, 2013; July 8, 2013; July 8, 2013	•	
Assignment Merger	Vaveaki shi	
Security Agreement Change of Name	City: Kawasaki-shi State: Kanagawa Country: Japan Zip: 210-9530	
Joint Research Agreement		
Government Interest Assignment		
Executive Order 9424, Confirmatory License		
Other	Additional name(s) & address(es) attached? Yes No	
4. Application or patent number(s):	document serves as an Oath/Declaration (37 CFR 1.63).	
A. Patent Application No.(s)	B. Patent No.(s)	
13/978,088	ached? Yes ■ No	
Additional numbers at	103	
E Name and address to whom correspondence	6 Total number of applications and patents	
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: ONE	
5. Name and address to whom correspondence concerning document should be mailed: Name: KANESAKA BERNER & PARTNERS	involved: ONE	
concerning document should be mailed: Name: KANESAKA BERNER & PARTNERS		
concerning document should be mailed:	7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00	
Concerning document should be mailed: Name: KANESAKA BERNER & PARTNERS Internal Address:	7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00 Authorized to be charged to deposit account	
concerning document should be mailed: Name: KANESAKA BERNER & PARTNERS	7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00 Authorized to be charged to deposit account Enclosed	
concerning document should be mailed: Name: KANESAKA BERNER & PARTNERS Internal Address: Street Address: 2318 Mill Road, Suite 1400	7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00 Authorized to be charged to deposit account Enclosed None required (government interest not affecting title)	
concerning document should be mailed: Name: KANESAKA BERNER & PARTNERS Internal Address: Street Address: 2318 Mill Road, Suite 1400 City: Alexandria	7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00 Authorized to be charged to deposit account Enclosed	
concerning document should be mailed: Name: KANESAKA BERNER & PARTNERS Internal Address: Street Address: 2318 Mill Road, Suite 1400	involved: ONE 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information	
Concerning document should be mailed: Name: KANESAKA BERNER & PARTNERS Internal Address: Street Address: 2318 Mill Road, Suite 1400 City: Alexandria State: Virginia Zip: 22314 Phone Number: 703-519-9785	involved: ONE 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information 67/12/2013 AMUNDAF1 60000010 13978088 61 FC:8821 40.00 OP	
Concerning document should be mailed: Name: KANESAKA BERNER & PARTNERS Internal Address: Street Address: 2318 Mill Road, Suite 1400 City: Alexandria State: Virginia Zip: 22314 Phone Number: 703-519-9785	involved: ONE 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information 67/12/2013 AUGNDAF1 60000016 13978088 81 FC:8821 Deposit Account Number	
concerning document should be mailed: Name: KANESAKA BERNER & PARTNERS Internal Address: Street Address: 2318 Mill Road, Suite 1400 City: Alexandria State: Virginia Zip: 22314	involved: ONE 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information 67/12/2013 AMUNDAF1 60000010 13978088 61 FC:8821 40.00 OP	
Concerning document should be mailed: Name: KANESAKA BERNER & PARTNERS Internal Address: Street Address: 2318 Mill Road, Suite 1400 City: Alexandria State: Virginia Zip: 22314 Phone Number: 703-519-9785 Docket Number: FUJ-177	involved: ONE 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information 67/12/2613 AUGNDAF1 60606016 13978688 81 FC:8821 Deposit Account Number	
concerning document should be mailed: Name: KANESAKA BERNER & PARTNERS Internal Address: Street Address: 2318 Mill Road, Suite 1400 City: Alexandria State: Virginia Zip: 22314 Phone Number: 703-519-9785 Docket Number: FUJ-177 Email Address: office@uspatentagents.com	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information 67/12/2613 AUGNDAF1 60000016 13978688 81 FC:8821 Deposit Account Number Authorized User Name	
concerning document should be mailed: Name: KANESAKA BERNER & PARTNERS Internal Address: Street Address: 2318 Mill Road, Suite 1400 City: Alexandria State: Virginia Zip: 22314 Phone Number: 703-519-9785 Docket Number: FUJ-177 Email Address: office@uspatentagents.com 9. Signature: Amana Kanaa Signature Manabu KANESAKA	involved: ONE 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information 67/12/2613 ANDNDAF1 86666016 13978688 81 FC:8821 Deposit Account Number Authorized User Name July 11, 2013 Date Total number of pages including cover 5	
Concerning document should be mailed: Name: KANESAKA BERNER & PARTNERS Internal Address: Street Address: 2318 Mill Road, Suite 1400 City: Alexandria State: Virginia Zip: 22314 Phone Number: 703-519-9785 Docket Number: FUJ-177 Email Address: office@uspatentagents.com 9. Signature: Manabu KANESAKA Name of Person Signing	### Involved: ONE 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information 67/12/2613 ANDNDAF1 66666016 13978688 81 FC:8821 46.60 OP Deposit Account Number Authorized User Name July 11, 2013 Date	

PATENT

REEL: 030862 FRAME: 0412

Form **PTO-1595** (Rev. 06-12)

U.S. DEPARTMENT OF COMMERCE



OMB No. 0651-0027 (exp. 04/30/2015)	United States Patent and Trademark Office		
RECORDATION FORM COVER SHEET RECORDATION FORM COVER SHEET			
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) 1. Yasuhiro NAKA	2. Name and address of receiving party(ies) Name: Fuji Electric FA Components & Systems Co., Ltd.		
2. Kouetsu TAKAYA	Internal Address:		
3. Kenji SUZUKI 4. Takahiro TAGUCHI — —			
Additional name(s) of conveying party(ies) attached? Yes No	5.7 Nihanhashi Odomma sha		
3. Nature of conveyance/Execution Date(s): Execution Date(s) July 8, 2013; July 8, 2013; July 8, 2013; July 8, 2013	Street Address: 5-7, Nihonbashi Odemma-cho		
Assignment Merger			
Security Agreement Change of Name	City: Chuo-ku		
Joint Research Agreement	State: Tokyo		
Government Interest Assignment	Country: Japan Zip: 103-0011		
Executive Order 9424, Confirmatory License	Country. 2ip.		
Other	Additional name(s) & address(es) attached? 🔲 Yes 🔳 No		
A. Patent Application No.(s)	document serves as an Oath/Declaration (37 CFR 1.63). B. Patent No.(s)		
13/978,088			
Additional numbers attached? Yes No			
5. Name and address to whom correspondence concerning document should be mailed: Name: KANESAKA BERNER & PARTNERS	6. Total number of applications and patents involved: ONE		
Name: 10 th Less to the Less t	7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00		
Internal Address:			
0040 Mill Deed Oute 4400	Authorized to be charged to deposit account		
Street Address: 2318 Mill Road, Suite 1400	Enclosed None required (government interest not affecting title)		
City: Alexandria	8. Payment Information		
State: Virginia Zip: 22314			
Phone Number: 703-519-9785	Deposit Account Number		
Docket Number: FUJ-177	,		
Email Address: office@uspatentagents.com	Authorized User Name		
9. Signature: Muastin Karing and	QJuly 11, 2013		
Signature	Date		
Manabu KANESAKA	Total number of pages including cover sheet, attachments, and documents:		
Name of Person Signing Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:			
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450			

PATENT REEL: 030862 FRAME: 0413

ASSIGNMENT

For value received, we, Yasuhiro NAKA; Kouetsu TAKAYA; Kenji SUZUKI; and Takahiro TAGUCHI having post office addresses at c/o FUJI ELECTRIC FA COMPONENTS & SYSTEMS CO., LTD., 5-7, Nihonbashi Odemma-cho, Chuo-ku, Tokyo 103-0011, Japan hereby sell, assign and transfer to ELECTRIC CO., LTD. and FUJI ELECTRIC FA COMPONENTS & SYSTEMS CO., LTD. corporations existing under the laws of _____lapan located at 1-1 Tanabeshinden, Kawasaki-ku, Kawasaki-shi 210-9530, Japan; and 5-7, Nihonbashi Odemma-cho, Chuo-ku, Tokyo 103-0011, Japan and its successors, assigns, and legal representatives the entire right, title, and interest for all countries including the United States of America, in and to certain inventions relating to ELECTROMAGNETIC CONTACTOR described in application for Letters Patent of the United States, Serial No. 13/978,088 Filed July 2, 2013 and all patents which may be granted therefor, and all divisions, reissues, continuations and extensions thereof, and authorize and request the Commissioner of Patents and Trademarks to issue all patents on said improvements or resulting therefrom to said Company as assignee of the entire interest, and covenant that I/We have full right so to do, and agree that I/We will communicate to said Company or its representatives any facts known to me/us respecting said improvements and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid said Company, its successors, assigns, and nominees, to obtain and enforce proper protection for said invention in the United States.

> PATENT REEL: 030862 FRAME: 0414

Signature	Hazihiro Naka Yasuhiro NAKA	Date July 8, 2013
		1 1. 0. 2012
Signature	Louetsu Takaya	Date July 8, 2013
Signature	Kenji Suzuki	Date July, 8, 20/3
Signature	Takahiro Jaguchi	Date July, P., 2013

PATENT REEL: 030862 FRAME: 0415

RECORDED: 07/11/2013