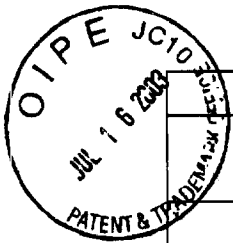


07-22-2003



IR-2248 (2-3462)



PATENT RECORDATION COVER SHEET

To the Director of the U.S. Patent and Trademark Office: Please record the attached original document or copy thereof.

1. Name of conveying party(ies): James B. ESKRITT Joel E. KUEHNER Hideki JOUNOKUCHI Yoshiyuki YAMAZAKI Type of Entity: Individual Additional names(s) of conveying party(ies) attached? No		2. Name and Address of receiving party(ies): International Rectifier Corporation 233 Kansas Street El Segundo, California 90245 Type of Entity: Corporation-California Additional name(s) & address(es) attached? No	
3. Nature of Conveyance: Assignment Execution Date: 4/25/03, 4/25/03, 5/6/03, 5/6/03			
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. Application No.(s) 10/425,091		B. Patent No.(s)	
Additional numbers attached? No			
5. Name and address of party to whom correspondence concerning document should be mailed: OSTROLENK, FABER, GERB & SOFFEN, LLP 1180 Avenue of the Americas New York, New York 10036-8403		6. Total number of documents involved: 1	
		7. Total fee (37 CFR 3.41): \$ 40.00 Enclosed as part of Check No. In the event the actual fee is greater than the payment submitted or is inadvertently not enclosed or if any additional fee due is not paid, the Patent and Trademark Office is authorized to charge the underpayment to Deposit Account No. 15-0700.	
DO NOT USE THIS SPACE			
8. 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.			
Louis C. Dujmich Name of Person Signing		 Signature	
		July 14, 2003 Date	
Total number of pages including cover sheet, attachments, and document: 4			

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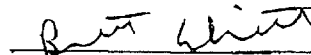
PATENT APPLICATION ASSIGNMENT
SOLE AND JOINT INVENTORS

OFGS FILE NO. IR-2248 (2-3462)

WHEREAS, We, James B. ESKRITT, Joel E. KUEHNER, Hideki JOUNOKUCHI and Yoshiyuki YAMAZAKI as assignors, have invented certain improvements in ELECTRONICALLY CONTROLLED POWER STEERING SYSTEM FOR VEHICLE AND METHOD AND SYSTEM FOR MOTOR CONTROL which an application for United States Letters Patent has been executed by us of even date herewith; and

WHEREAS, International Rectifier Corporation, 233 Kansas Street, El Segundo, California 90245, and Koyo Seiko Co., Ltd., 3-5-8 Minami-senba, Chuo-ku, Osaka, JAPAN as assignees, are desirous of acquiring all right, title and interest in and to said invention and any Patent that may be granted therefor.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, WE, as assignors, hereby sell, assign and set over to said assignees the entire right, title and interest for the United States and all other countries in and to said invention and the aforesaid application for Patent, all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States and all other countries, including all rights of priority from the filing of said application, and all rights for past infringement, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said inventions or resulting therefrom to said assignees herein, as assignees of the entire interest therein; and the undersigned for myself and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, reissue and other applications for Patent on said inventions and all assignments thereof to said assignees or their assigns, to communicate to said assignees or their representatives all facts known to the undersigned respecting said inventions, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to assist assignees, their successors, assigns and nominees to obtain patent protection for said invention in the United States and all other countries, the expenses incident to said applications to be borne and paid by said assignees.

Date: Apr. 25 2003

James B. ESKRITT

Date: APRIL 25, 2003

Joel E. KUEHNER

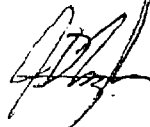
Date: _____

Hideki JOUNOKUCHI

Date: _____

Yoshiyuki YAMAZAKI

This 25th day of APRIL, 2003, before me personally came the above-named JAMES B. ESKRITT to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him of his own free will for the purposes therein set forth.




JAMES D. JAMES

Notary Public Seal

WITNESS

This 25th day of APRIL, 2003, before me personally came the above-named **JOEL E. KUEHNER** to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him of his own free will for the purposes therein set forth.

 JAMES D. TOMPKINS
Notary Public - Seal

This ____ day of _____, 20____, before me personally came the above-named **HIDEKI JOUNOKUCHI** to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him of his own free will for the purposes therein set forth.

Notary Public - Seal

This ____ day of _____, 20____, before me personally came the above-named **YOSHIYUKI YAMAZAKI** to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him of his own free will for the purposes therein set forth.

Notary Public - Seal

PATENT APPLICATION ASSIGNMENT -
SOLE AND JOINT INVENTORS

OPGS FILE NO. IR-2248 (2-3462)

WHEREAS, We, James B. ESKRITT, Joel E. KUERNER, Hideki JOUNOKUCHI and Yoshiyuki YAMAZAKI as assignors, have invented certain improvements in ELECTRONICALLY CONTROLLED POWER STEERING SYSTEM FOR VEHICLE AND METHOD AND SYSTEM FOR MOTOR CONTROL which an application for United States Letters Patent has been executed by us of even date herewith; and

WHEREAS, International Rectifier Corporation, 233 Kansas Street, El Segundo, California 90245, and Koyo Seiko Co., Ltd., 3-5-8 Minami-senba, Chuo-ku, Osaka, JAPAN as assignees, are desirous of acquiring all right, title and interest in and to said invention and any Patent that may be granted therefor.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, WE, as assignors, hereby sell, assign and act over to said assignees the entire right, title and interest for the United States and all other countries in and to said invention and the aforesaid application for patent, all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States and all other countries, including all rights of priority from the filing of said application, and all rights for past infringement, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said inventions or resulting therefrom to said assignees herein, as assignees of the entire interest therein; and the undersigned for myself and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all divisional, continuation, reissue and other applications for Patent on said inventions and all assignments thereof to said assignees or their assigns, to communicate to said assignees or their representatives all facts known to the undersigned respecting said inventions, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to assist assignees, their successors, assigns and nominees to obtain patent protection for said invention in the United States and all other countries, the expenses incident to said applications to be borne and paid by said assignees.

Date: _____

James B. ESKRITT

Date: _____

Joel E. KUERNER

Date: 6. May, 2003

Hideki Jounokuchi
Hideki JOUNOKUCHI

Date: 6. May, 2003

Yoshiyuki Yamazaki
Yoshiyuki YAMAZAKI

This _____ day of _____, 20____, before me personally came the above-named JAMES B. ESKRITT to me personally known as the individual who executed the foregoing instrument, who acknowledged to me that the same was executed by him of his own free will for the purposes therein set forth.

Notary Public - Seal

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NO. 1696 P. 19

International Rectifier Japan

2003# 54208 16#13#
PATENT

RECORDED: 07/16/2003

REEL: 014284 FRAME: 0715