

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Naoto SONODA</td> <td>02/20/2012</td> </tr> <tr> <td>Yukio TOYOZAWA</td> <td>02/20/2012</td> </tr> </tbody> </table>		Name	Execution Date	Naoto SONODA	02/20/2012	Yukio TOYOZAWA	02/20/2012				
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<table border="1"> <tr> <td>Name:</td> <td>FANUC CORPORATION</td> </tr> <tr> <td>Street Address:</td> <td>3580, Shibokusa Aza-Komanba, Oshino-mura</td> </tr> <tr> <td>City:</td> <td>Minamitsuru-gun, Yamanashi</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>401-0597</td> </tr> </table>		Name:	FANUC CORPORATION	Street Address:	3580, Shibokusa Aza-Komanba, Oshino-mura	City:	Minamitsuru-gun, Yamanashi	State/Country:	JAPAN	Postal Code:	401-0597
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
Fax Number:	(703)518-5499										
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NAME OF SUBMITTER:	Benjamin J. Hauptman										
Total Attachments: 1 source=Assignment#page1.tif											

OP \$40.00 13493019

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter "ASSIGNOR") by

(Insert
ASSIGNEE's
Name(s)
Address(es))

FANUC Corporation

3580, Shibokusa Aza-Komanba, Oshino-mura, Minamitsuru-gun, Yamanashi 401-0597, Japan

(hereinafter "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

(Title of
Invention)

ELECTRIC MOTOR CONTROLLER COMPRISING FUNCTION FOR SIMULTANEOUSLY

ESTIMATING INERTIA, FRICTION, AND SPRING

relating to International Patent Application PCT/JP / and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was:

Insert date of
execution of
application, if
not concurrent)

(a) executed on _____;

(b) filed on 11 June 2012

Serial No, 13,493,019;

Assignee's attorney is hereby authorized to insert in (b) the specified data, when known

and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)").

The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signatures)

1) Naoto Sonoda Naoto Sonoda February 20, 2012
(SIGNATURE) (TYPE NAME) (DATE)

2) Yukio Toyozawa Yukio Toyozawa February 20, 2012
(SIGNATURE) (TYPE NAME) (DATE)

3) _____
(SIGNATURE) (TYPE NAME) (DATE)

4) _____
(SIGNATURE) (TYPE NAME) (DATE)

5) _____
(SIGNATURE) (TYPE NAME) (DATE)

6) _____
(SIGNATURE) (TYPE NAME) (DATE)

7) _____
(SIGNATURE) (TYPE NAME) (DATE)

8) _____
(SIGNATURE) (TYPE NAME) (DATE)

PATENT

RECORDED: 06/11/2012

REEL: 028350 FRAME: 0129