

11-23-2007

S. DEPARTMENT OF COMMERCE  
States Patent and Trademark Office



103463382

To the Director of the U.S. Patent and Trade.

... documents or the new address(es) below.

11-16-07

**1. Name of conveying party(ies):**

Bertil Berggren (02/22/2007) and Mojtaba Noroozian (03/01/2007)

Additional name(s) of conveying party(ies) attached?  Yes  No

**2. Name and address of receiving party(ies)**

Name: ABB RESEARCH LTD.

Internal Address: \_\_\_\_\_

Street Address: \_\_\_\_\_

Affolternstrasse 52

City: Zürich

State: \_\_\_\_\_

Country: Switzerland Zip: CH-8050

Additional name(s) & address(es) attached?  Yes  No

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s): in parentheses after inventor name

Assignment  Merger  Change of Name

Security Agreement  Joint Research Agreement

Government Interest Assignment

Executive Order 9424, Confirmatory License

Other \_\_\_\_\_

**4. Application or patent number(s):**

A. Patent Application No.(s)

11/661,248

This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached?  Yes  No

**5. Name and address to whom correspondence concerning document should be mailed:**

Name: Eric J. Franklin  
VENABLE LLP

Internal Address: Atty. Dkt.: 43315-241700

Street Address: P.O. Box 34385

City: Washington

State: DC Zip: 20043-9998

Phone Number: (202) 344-4936

Fax Number: (202) 344-8300

Email Address: ejfranklin@venable.com

**6. Total number of applications and patents involved:**

1

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ .00**

Authorized to be charged by credit card

Authorized to be charged to deposit account

Enclosed

None required (*recording fee was paid on October 29, 2007 w/ Missing Requirements*)

**8. Payment Information**

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number 22-0261  
Authorized User Name Eric J. Franklin

**9. Signature:**

November 16, 2007

Signature

Date

Eric J. Franklin - 37,134

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

3

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS Bertil BERGGREN, Sidengatan 4, 724 76 Väaterås, Sweden; and Mojtaba NOROOZIAN, No 92, St. 10, Karegare Shomali, Tehran, Iran, hereinafter (collectively) referred to as the assignor, has invented certain improvements relating to ELECTRIC POWER FLOW CONTROL for which said assignor has caused an application for United States Letter Patent to be prepared,

- the inventor's declaration for said application being executed concurrently with the execution of this instrument;
- said application to be filed in the United States Patent and Trademark Office;
- said Non-Provisional application having been filed in the United States Patent and Trademark Office on \_\_\_\_\_, and given Application Number \_\_\_\_\_;
- said application having been filed under the Patent Cooperation Treaty on 27 August 2004, and given Application No. PCT/SE2004/001241, the United States of America having been designated.

AND WHEREAS            ABB RESEARCH LTD.  
                              Affolternstrasse 52  
                              CH-8050 Zürich  
                              Switzerland

hereinafter referred to as the assignees are desirous of acquiring the entire right, title and interest in and to said application, including any divisions and continuations thereof, and in and to said invention and any patents which may be granted therefor, including any renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignees to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the entire and exclusive right, title and interest in and to said invention and to said application, including any divisions and continuations thereof, and in any patents which may be granted therefor, including any renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said invention and said application, including any divisions and continuations thereof, and any patents which may be granted therefor, including any renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any such patents when granted, including any renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any acts relating to the obtaining or to the asserting of said patents, including any renewals, reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

EXECUTED, this 22 day of February, ~~2006~~ 2007

Signature: \_\_\_\_\_  
Name: Bertil BERGGREN  
Address: Sidengatan 4, 724 76 Väaterås, Sweden

EXECUTED, this \_\_\_\_ day of \_\_\_\_\_, 2006

Signature: \_\_\_\_\_  
Name: Mojtaba NOROOZIAN  
Address: No 92, St. 10, Karegare Shomali, Tehran, Iran

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS Bertil BERGGREN, Sidengatan 4, 724 76 Västerås, Sweden; and Mojtaba NOROOZIAN, No 92, St. 10, Karegare Shomali, Tehran, Iran, hereinafter (collectively) referred to as the assignor, has invented certain improvements relating to ELECTRIC POWER FLOW CONTROL, for which said assignor has caused an application for United States Letter Patent to be prepared,

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- said application to be filed in the United States Patent and Trademark Office;
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AND WHEREAS            ABB RESEARCH LTD.  
                              Affolternstrasse 52  
                              CH-8050 Zürich  
                              Switzerland

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NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignees to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the entire and exclusive right, title and interest in and to said invention and to said application, including any divisions and continuations thereof, and in any patents which may be granted therefor, including any renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said invention and said application, including any divisions and continuations thereof, and any patents which may be granted therefor, including any renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any such patents when granted, including any renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any acts relating to the obtaining or to the asserting of said patents, including any renewals, reissues and prolongations thereof.

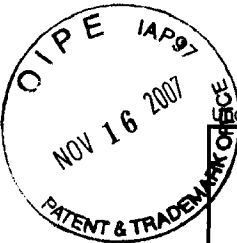
AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

EXECUTED, this \_\_\_\_ day of \_\_\_\_\_, 2006

Signature: \_\_\_\_\_  
Name: Bertil BERGGREN  
Address: Sidengatan 4, 724 76 Västerås, Sweden

EXECUTED, this \_\_\_\_ day of \_\_\_\_\_, 2006

Signature:   
Name: Mojtaba NOROOZIAN  
Address: No 92, St. 10, Karegare Shomali, Tehran, Iran

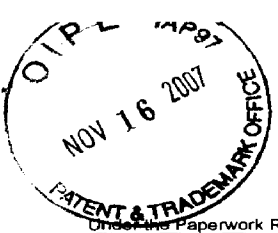


Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<h1>TRANSMITTAL FORM</h1> <p><i>(to be used for all correspondence after initial filing)</i></p>		Application Number	11/661,248-Conf. #9944
		Filing Date	February 27, 2007
		First Named Inventor	Bertil Berggren
		Art Unit	Not Yet Assigned
		Examiner Name	Not Yet Assigned
Total Number of Pages in This Submission	4	Attorney Docket Number	43315-241700

ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> <b>Fee Transmittal Form</b> <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> <b>Other Enclosure(s) (please identify below):</b> <b>ASSIGNMENT W/RECORDATION COVERSHEET</b>
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	VENABLE LLP		
Signature			
Printed name	Eric J. Franklin		
Date	November 16, 2007	Reg. No.	37,134



PTO/SB/17 (10-07)  
 Approved for use through 06/30/2010. OMB 0651-0032  
 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
 Under the Paperwork Reduction Act of 1995, no person are required to respond to a collection of information unless it displays a valid OMB control number.

<b>Effective on 12/08/2004.</b> <b>Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).</b> <b>FEE TRANSMITTAL</b> <b>For FY 2008</b>		<b>Complete if Known</b>	
		Application Number	11/661,248-Conf. #9944
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Filing Date	February 27, 2007
		First Named Inventor	Bertil Berggren et al.
		Examiner Name	Not Yet Assigned
TOTAL AMOUNT OF PAYMENT		(\$)	.00
		Attorney Docket No.	43315-241700

**METHOD OF PAYMENT (check all that apply)**

Check   
  Credit Card   
  Money Order   
  None   
  Other (please identify): \_\_\_\_\_

Deposit Account   
 Deposit Account Number: 22-0261   
 Deposit Account Name: Venable LLP

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

Charge fee(s) indicated below   
  Charge fee(s) indicated below, **except for the filing fee**  
 Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17   
  Credit any overpayments

**FEE CALCULATION**

**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	310	155	510	255	210	105	
Design	210	105	100	50	130	65	
Plant	210	105	310	155	160	80	
Reissue	310	155	510	255	620	310	
Provisional	210	105	0	0	0	0	

**2. EXCESS CLAIM FEES**

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	210	105
Multiple dependent claims	370	185

**Total Claims**    **Extra Claims**    **Fee (\$)**    **Fee Paid (\$)**    **Multiple Dependent Claims**  
 18    - 20 = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_    **Fee (\$)**    **Fee Paid (\$)**  
 HP = highest number of total claims paid for, if greater than 20.

**Indep. Claims**    **Extra Claims**    **Fee (\$)**    **Fee Paid (\$)**  
 2    - 3 = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_  
 HP = highest number of independent claims paid for, if greater than 3.

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$260 (\$130 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
_____	_____	_____	_____	_____

\_\_\_\_\_ - 100 = \_\_\_\_\_ / 50 = \_\_\_\_\_ (round up to a whole number) x \_\_\_\_\_ = \_\_\_\_\_

**4. OTHER FEE(S)**

	Fees Paid (\$)
Non-English Specification, \$130 fee (no small entity discount)	
Other (e.g., late filing surcharge): 8021 Recording each patent assignment, agreement or ... <i>(recording fee was paid on October 29, 2007 w/ Missing Requirements)</i>	.00

<b>SUBMITTED BY</b>			
Signature		Registration No. (Attorney/Agent)	37,134
Name (Print/Type)	Eric J. Franklin	Telephone	(202) 344-4936
		Date	November 16, 2007