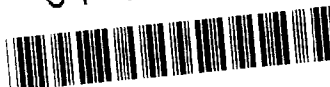


04-17-2006

Form PTO-1595 (Rev. 08/05)
OMB No. 0651-0027 (exp. 6/30/2008)U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

103220263

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):

Pierre Öberg (9/2/2005) and Robert Markic
(8/31/2005)Additional name(s) of conveying party(ies) 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

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-8050Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

10/538,384

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 LLPInternal Address: Atty. Dkt.: 43315-218894Street Address: P.O. Box 34385City: WashingtonState: DC Zip: 20043-9998Phone Number: (202) 344-4936Fax Number: (202) 344-8300Email Address: ejfranklin@venable.com

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☐ Authorized to be charged by credit card
☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

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:

Signature

April 3, 2006

Date

Eric J. Franklin - 37,134

Name of Person Signing

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

3

04/07/2006 GFREY1 00000170,220261 10538384

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(40.00 DA)

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PATENT
REEL: 017749 FRAME: 0925

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS Pierre ÖBERG, Hedenshösv.3, S-723 53 Västerås, Sweden; and Robert MARKIC, 78 Maidstone Street, Ringwood, Victoria 3134, Australia, hereinafter (collectively) referred to as the assignor, has invented certain improvements relating to A CONTROL SYSTEM CONTROLLING A PLURALITY OF REAL WORLD OBJECTS, AND A METHOD FOR HANLING MESSAGES FROM A MOBILE USER CONNECTED TO THE CONTROL SYSTEM 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 12 December 2002, and given Application No. PCT/SE2002/002340, 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 is 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 assignee 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 2 day of Sept, 2005

Signature: _____

Name: Pierre ÖBERG

Address: Hedenshösv.3, S-723 53 Västerås, Sweden

EXECUTED, this _____ day of _____, 2005

Signature: _____

Name: Robert MARKIC

Address: 78 Maidstone Street, Ringwood, Victoria 3134, Australia

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS Pierre ÖBERG, Hedenshösv.3, S-723 53 Västerås, Sweden; and Robert MARKIC, 78 Maidstone Street, Ringwood, Victoria 3134, Australia, hereinafter (collectively) referred to as the assignor, has invented certain improvements relating to A CONTROL SYSTEM CONTROLLING A PLURALITY OF REAL WORLD OBJECTS, AND A METHOD FOR HANLING MESSAGES FROM A MOBILE USER CONNECTED TO THE CONTROL SYSTEM 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 _____;
[X] said application having been filed under the Patent Cooperation Treaty on 12 December 2002, and given Application No. PCT/SE2002/002340, 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 is 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 assignee 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 _____, 2005

Signature: _____
Name: Pierre ÖBERG
Address: Hedenshösv.3, S-723 53 Västerås, Sweden

EXECUTED, this 31st day of August, 2005

Signature: Robert Markic
Name: Robert MARKIC
Address: 78 Maidstone Street, Ringwood, Victoria 3134, Australia