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OMB No. 0651-0027 (exp. 6/30/2008)



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REC'D

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)

Birger Erik Ydstie

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

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

Execution Date(s) December 10, 2007

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other

2. Name and address of receiving party(ies)

Name: Carnegie Mellon University

Internal Address: Center for Technology Transfer

Street Address: 5000 Forbes Avenue

City: Pittsburgh

State: Pennsylvania

Country: United States of America Zip: 15213

Additional 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)

B. Patent No.(s)

11/922180

12/17/2007 MKAYPACH 00000110 503198 11922180

04 FC:8021 40.00 DA

Additional numbers attached? ☐ Yes ☒ No

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

Name: Darren E. Wolf

Internal Address: Dickie, McCamey & Chilcote, P.C.

Street Address: Two PPG Place, Suite 400

City: Pittsburgh

State: Pennsylvania Zip: 15222-5402

Phone Number: 412-392-5681

Fax Number: 412-392-5650

Email Address: dwolf@dmclaw.com

6. Total number of applications and patents involved: One (1)

7. Total fee (37 CFR 1.21(h) & 3.41) \$40

- ☐ 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 50-3198

Authorized User Name Darren E. Wolf

9. Signature:

Darren Wolf

Signature

December 13, 2007

Date

Darren E. Wolf

Name of Person Signing

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

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Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

PATENT
REEL: 020296 FRAME: 0154

ASSIGNMENT OF INVENTION

For: ☒ U.S. and/or ☒ Foreign Rights
For: ☒ U.S. Application or ☐ U.S. Provisional Application
For: ☐ U.S. Patent
For: ☒ PCT Application
By: ☒ Inventor(s) or ☐ Present Owner

In consideration of the payment by ASSIGNEE(S) to ASSIGNOR(S) of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR(S)

Birger Erik YDSTIE	Carnegie Mellon University Department of Chemical Engineering 5000 Forbes Avenue Pittsburgh, PA 15213 United States of America	United States
--------------------	--	---------------

Name of Assignor	Address	Nationality
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hereby sells, assigns and transfers to

ASSIGNEE(S):

Carnegie Mellon University	Attn: Center for Technology Transfer 5000 Forbes Avenue Pittsburgh, PA 15213 United States of America	Pennsylvania Non-Profit Corporation
----------------------------	--	--

(Name of ASSIGNEE)	Address	Nationality
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and the successors, assigns and legal representatives of the ASSIGNEE(S)

- ☒ the entire right, title and interest for the United States and its territorial possessions
☐ an undivided _____ percent (_____ %) interest for the United States and its territorial possessions
☒ and in all foreign countries;

including all rights to claim priority, all rights to file patent applications, and all other intellectual property rights, in and to any and all improvements, inventions, and other intellectual property which is/are found in:

- (a) ☒ U.S. patent application executed on even date herewith, and entitled "APPARATUSES, SYSTEMS, AND METHODS UTILIZING ADAPTIVE CONTROL", to be filed on December 13, 2007, having Reference Number CMU05-065PCT-US, and claiming priority from International application serial number PCT/US2005/020863, filed June 13, 2005.
(b) ☐ the application(s) and invention disclosure(s) identified in the Attachments hereto.
(c) ☐ U.S. patent application executed on _____.
(d) ☐ U.S. provisional application no.: _____ filed on _____.
(e) ☒ International application serial number PCT/US2005/020863, and entitled "APPARATUSES, SYSTEMS, AND METHODS UTILIZING ADAPTIVE CONTROL", filed on June 13, 2005, and having Reference Number 2005-065PCT.

Each Inventor: Initial and date here for acknowledgement of this page

BEY

(f) ☐ U.S. patent no. _____ issued _____.

☐ A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(g) ☐ Other: _____.

(h) ☒ and any legal equivalent thereof in any country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by a new application or by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof.

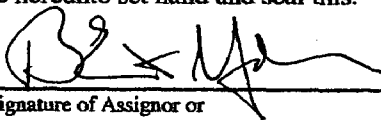
ASSIGNOR(S) hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR(S) further covenants that ASSIGNEE(S) will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR(S) and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE(S) or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, ASSIGNOR(S) have hereunto set hand and seal this:

Birger Erik Ydstie

Name of Assignor or
Name & Title of Person entitled to sign on behalf
of Assignor


Signature of Assignor or
Person entitled to sign on behalf of Assignor

12-10-07
Date

Place of signing of assignment

City/County : Pittsburgh/Allegheny County
State : Pennsylvania
Country : United States of America

Before me this ___ day of December, 2007 personally appeared Birger Erik Ydstie to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged its contents of his/her own free will for the purpose therein expressed.

Notary Public or Consular Officer of the United States of America

**RECORDATION FORM COVER SHEET
PATENTS ONLY**

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