

05-18-2006



To the Director of the U.S. Patent and Trademark Office

103240061

Documents or the new address(es) below.

1. Name of conveying party(ies)

Wade C. Patterson
Terry G. Phillips

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

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

Execution Date(s) May 11, 2006

- ☒ 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: Synapse, Inc.

Internal Address: _____

Street Address: 132 Export Circle

City: Huntsville

State: Alabama

Country: U.S. Zip: 35806

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)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Jon E. Holland

Internal Address: Suite 1750

Street Address: 100 Galleria Parkway

City: Atlanta

State: Georgia Zip: 30339

Phone Number: (256) 704-3900

Fax Number: (256) 704-3900

Email Address: jon.holland@tkhr.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 _____

Authorized User Name _____

9. Signature:

Signature

5/11/06
Date

Jon E. Holland

Name of Person Signing

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

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

**ASSIGNMENT
OF UTILITY PATENT APPLICATION**

WHEREAS, the following parties:

<u>Name</u>	<u>Address</u>
Wade C. Patterson	117 Woodrow Balch Road, Huntsville, Alabama, 35806
Terry G. Phillips	109 Colonial Drive, Meridianville, Alabama, 35759

hereinafter referred to as ASSIGNOR, has/have invented certain new and useful improvements ("invention(s)") as described and set forth in the below-identified utility application for United States Letters Patent entitled:

**SYSTEM AND METHOD FOR ESTIMATING AND INDICATING TEMPERATURE
CHARACTERISTICS OF TEMPERATURE CONTROLLED LIQUIDS,**

which was:

- ☒ executed on even date herewith,
- ☐ filed with the United States Patent and Trademark Office (USPTO) on _____, and assigned Serial No. _____, and
- ☒ further described in U.S. Provisional application entitled System and Method for Indicating an Amount of Available Hot Water Within a Water Heater, filed with the USPTO on May 11, 2005, and assigned Serial No. 60/679,762.

WHEREAS, Synapse, Inc., having a place of business at 132 Export Circle, Huntsville, Alabama, 35806, hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNOR'S interest in and to said invention(s), said utility application, said provisional application, and any U.S. and foreign patents which are related to the same.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by ASSIGNOR, ASSIGNOR has sold, assigned and transferred and does hereby sell, assign and

transfer unto ASSIGNEE, and ASSIGNEE'S successors and assigns, (a) the entire right, title and interest, for the United States of America, in and to said invention(s), said utility application, and said provisional application and all the rights and privileges in any application and under any and all patents that may be granted in the U.S. for said inventions, including all corresponding provisional, continuation, continuation-in-part, divisional, reissue, and reexamination applications; and (b) the entire right, title and interest in and to said invention(s), said utility application, and said provisional application for all countries foreign to the U.S., including all rights of priority arising from them, and all the rights and privileges under any and all forms of protection, including patents, that may be granted in said countries foreign to the U.S. for them.

ASSIGNOR authorizes ASSIGNEE to make application for such protection in its own name and maintain such protection in any and all countries foreign to the U.S., and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from ASSIGNOR, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

ASSIGNOR hereby consents that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of ASSIGNEE to apply for patent or other form of protection for said inventions, said utility application, or said provisional application and to claim the aforesaid benefit of the right of priority.

ASSIGNOR requests that any and all patents for said inventions be issued to ASSIGNEE in the U.S. and to ASSIGNEE in all countries foreign to the U.S., or to such nominee as ASSIGNEE may designate.

ASSIGNOR covenants and agrees that, when requested, ASSIGNOR shall, without charge to ASSIGNEE but at ASSIGNEE'S expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable, or convenient in connection with the patent applications, patents, or other forms of protection of said invention(s), and for the defense and protection thereof if challenged in the court of law.

ASSIGNOR authorizes ASSIGNEE or its agents to insert, on ASSIGNOR'S behalf, the filing date and/or serial number above pertaining to the utility application and/or the provisional application, if not known as of the date of execution of this document.


Wade C. Patterson

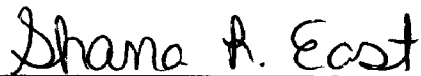
Date: 5-11-06

United States of America

State of Alabama

County of Madison

On this 11 day of May, 20 06, before me personally came **Wade C. Patterson** to me known to be the individual described above and who executed the foregoing instrument, or acknowledged execution of the same.


Notary Public
My Commission Expires
August 22, 2007

My Commission Expires (Date)

Terry G. Phillips
Terry G. Phillips

Date: May 11, 2006

United States of America

State of Alabama

County of Madison

On this 11 day of May, 20 06, before me personally came **Terry G. Phillips** to me known to be the individual described above and who executed the foregoing instrument, or acknowledged execution of the same.

Shana R. East
Notary Public

My Commission Expires
August 22, 2007

My Commission Expires (Date)