

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
EFFECTIVE DATE:	06/24/2005										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Larry E Seiber</td><td>06/24/2005</td></tr><tr><td>Curtis W Ayers</td><td>06/24/2005</td></tr><tr><td>John S Hsu</td><td>06/24/2005</td></tr><tr><td>Laura D Marlino</td><td>06/24/2005</td></tr></tbody></table>		Name	Execution Date	Larry E Seiber	06/24/2005	Curtis W Ayers	06/24/2005	John S Hsu	06/24/2005	Laura D Marlino	06/24/2005
Name	Execution Date										
Larry E Seiber	06/24/2005										
Curtis W Ayers	06/24/2005										
John S Hsu	06/24/2005										
Laura D Marlino	06/24/2005										
RECEIVING PARTY DATA											
Name:	UT-Battelle, LLC										
Street Address:	One Bethel Valley Road										
Internal Address:	4500N, MS-6258										
City:	Oak Ridge										
State/Country:	TENNESSEE										
Postal Code:	37831-6258										
PROPERTY NUMBERS Total: 1											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>11166502</td></tr></tbody></table>		Property Type	Number	Application Number:	11166502						
Property Type	Number										
Application Number:	11166502										
CORRESPONDENCE DATA											
Fax Number:	(865)574-0381										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	(865) 574-4179										
Email:	bowmanke@ornl.gov										
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Address Line 1:	One Bethel Valley Road										
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Address Line 4:	Oak Ridge, TENNESSEE 37831-6258										
NAME OF SUBMITTER:	Karen E. Bowman										

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PATENT  
REEL: 016422 FRAME: 0109

**Total Attachments: 6**

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## ASSIGNMENT

WHEREAS, I, the below-named inventor whose residence and post office box is as stated below, have invented certain new and useful improvements in an

### REFRIGERANT DIRECTLY COOLED CAPACITORS

(hereinafter referred to as "Subject Invention") for which an application for United States Letters Patent was executed by me on even date herewith, and

WHEREAS, UT-BATTELLE, LLC, a limited liability company of the State of Tennessee, having an office at One Bethel Valley Road, P.O. Box 2008, Oak Ridge, Tennessee 37831-6258 (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the right, title, and interest of the undersigned in the Subject Invention and to any Letters Patent that may be granted therefore in the United States of America and in any and all foreign countries.

NOW, THEREFORE, in accordance with the terms of my employment agreement with ASSIGNEE and for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby assign to ASSIGNEE my entire right, title, and interest in the Subject Invention, to all rights of priority thereto pursuant to the International Convention for the Protection of Industrial Property, and in any Letters Patent on the Subject Invention that may be granted in the United States of America and in any and all foreign countries, including any and all Letters Patent that are divisions, reissues, continuations, substitutions or extensions of any Letters Patent or applications therefore on the Subject Invention.

I hereby authorize and request the Commissioner of the United States Patent and Trademark Office and the officials of any and all foreign countries to issue any and all of said Letters Patent, when granted, to the ASSIGNEE.

Further, I hereby agree to communicate to said ASSIGNEE or its representatives any facts known to me respecting said Subject Invention, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitution, renewal and reissue applications, to execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, and to make all rightful oaths and generally do everything possible to aid said ASSIGNEE and its representatives to obtain and enforce proper protection for said Subject Invention in the United States of America and in any and all foreign countries.

I further agree that the terms, covenants and conditions of this assignment shall inure to the benefit of ASSIGNEE, its successors, assigns, and legal representatives, and shall be binding on me, my heirs, legal representatives, and assigns.

Full name of second inventor: Larry E. Seiber

Inventor's Signature: Larry E. Seiber

Date: 6/24/05

Address: 17 Cooper Lane, Oak Ridge, Tennessee 37830

Post Office Address: 17 Cooper Lane, Oak Ridge, Tennessee 37830

State of Tennessee                     )  
County of Anderson                    )

On this 24<sup>th</sup> day of JUNE, 2005, before me, a Notary Public in and for the County and State aforesaid, appeared Larry E. Seiber, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.



Kirk A. Wilson  
Notary Public

SEAL

MY COMMISSION EXPIRES  
MARCH 14, 2009

My Commission Expires: \_\_\_\_\_

Full name of fourth inventor: Curtis W. Ayers

Inventor's Signature: Curtis W. Ayers

Date: 6/24/05

Address: 183 Old Johnston Valley Road, Kingston, Tennessee 37763

Post Office Address: 183 Old Johnston Valley Road, Kingston, Tennessee 37763

State of Tennessee )  
County of Anderson )

On this 24<sup>th</sup> day of JUNE, 2005, before me, a Notary Public in and for the County and State aforesaid, appeared Curtis W. Ayers, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.



Kirk A. Wilson  
Notary Public

SEAL

MY COMMISSION EXPIRES  
MARCH 14, 2009

My Commission Expires: \_\_\_\_\_

Full name of first inventor: John S. Hsu

Inventor's Signature: John S. Hsu

Date: 6/24/05

Address: 139 Marietta Circle, Oak Ridge, Tennessee 37830

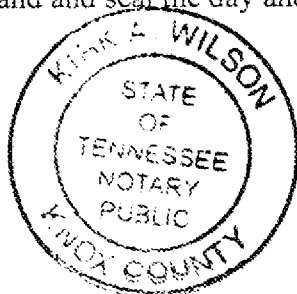
Post Office Address: 139 Marietta Circle, Oak Ridge, Tennessee 37830

State of Tennessee )

County of Anderson )

On this 24<sup>th</sup> day of June, 2005, before me, a Notary Public in and for the County and State aforesaid, appeared John S. Hsu, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.



Kirk A. Wilson  
Notary Public

SEAL

MY COMMISSION EXPIRES  
My Commission Expires: MARCH 14, 2009

Full name of third inventor: Laura D. Marlino

Inventor's Signature: Laura D. Marlino

Date: 24 June 2005

Address: 134 Newport Drive, Oak Ridge, Tennessee 37830

Post Office Address: 134 Newport Drive, Oak Ridge, Tennessee 37830

State of Tennessee )

County of Anderson )

On this 24<sup>th</sup> day of JUNE, 2005, before me, a Notary Public in and for the County and State aforesaid, appeared Laura D. Marlino, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.



Kirk A. Wilson  
Notary Public

SEAL

My Commission Expires: MY COMMISSION EXPIRES  
MARCH 14, 2009