

MR3693-4

Form PTO-1595 (Rev. 07/05)  
OMB No. 0651-0027 (exp. 6/30/2008)U.S. DEPARTMENT OF COMMERCE  
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PATENTS ONLY**

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)**

JOHN LAWLER; JUNGHO KIM; SAEED MOGHADDAM

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No**3. Nature of conveyance/Execution Date(s):**Execution Date(s) 10/31/07; 10/31/07; 11/10/07

- ☒ 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: ATEC, INC.

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

Street Address: 7100 BALTIMORE AVENUE, SUITE 300City: COLLEGE PARKState: MARYLANDCountry: USA Zip: 20740Additional 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)

11/231,453

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No**5. Name and address to whom correspondence concerning document should be mailed:**Name: Morton J. RosenbergInternal Address: Rosenberg, Klein & LeeStreet Address: 3458 Ellicott Center Drive, Suite 101City: Ellicott CityState: MD Zip: 21043Phone Number: 410-465-6678Fax Number: 410-461-3067

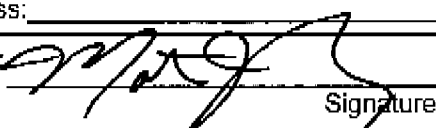
Email Address: \_\_\_\_\_

**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 18-2011

Authorized User Name \_\_\_\_\_

**9. Signature:**

Signature

11/16/2007

Date

Morton J. Rosenberg

Name of Person Signing

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

4

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

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04586PATENT  
REEL: 020158 FRAME: 0083

CH \$40.00 182011 11231453

MR3693-4

## ASSIGNMENT DEED

This Assignment agreement is applicable to an invention entitled (Invention Title) HEAT-FLUX BASED EMISSIVITY/ABSORPTIVITY MEASUREMENT

The PATENT RIGHTS referred to in this agreement are:

- (Check one) ☐ a Patent Application for this invention, executed by the ASSIGNOR(s) concurrently with this Assignment  
☒ U.S. Patent Application Serial No. 11/231,453 filed 9/21/2007  
☐ U.S. Patent No. \_\_\_\_\_ issued \_\_\_\_\_

The PATENT RIGHTS assigned under this agreement are:

- (Check one) ☐ U.S. Patent rights only  
☒ worldwide Patent rights. In this case, the assignee shall have the right to claim the benefit of the filing date of any U.S. Patent Application identified above.

The ASSIGNOR(s) referred to in this agreement is (or are):

(Full name of first assignor) John Lawler  
 (Address) 12225 Quince Valley Drive  
North Potomac, Maryland 20878

(Full name of second assignor, if any) \_\_\_\_\_  
 (Address) \_\_\_\_\_

(Full name of third assignor, if any) \_\_\_\_\_  
 (Address) \_\_\_\_\_

(Full name of fourth assignor, if any) \_\_\_\_\_  
 (Address) \_\_\_\_\_

The First ASSIGNEE referred to in this agreement is:

(Name of Assignee) ATEC, Inc.  
 (Address of Assignee) 7100 Baltimore Avenue, Suite 300  
College Park, Maryland 20740

The Second ASSIGNEE referred to in this agreement is:

(Name of Assignee) \_\_\_\_\_  
 (Address of Assignee) \_\_\_\_\_

The First ASSIGNEE is:

- (Check one) ☐ an individual  
☐ a partnership  
☒ a Corporation of Maryland  
 (State or Country)

The Second ASSIGNEE is:

- (Check one) ☐ an individual  
☐ a partnership  
☐ a Corporation of \_\_\_\_\_  
 (State or Country)

☐ Additional assignees are being named on separately numbered sheets attached hereto.

The ASSIGNOR(S), in consideration of \$1.00 paid by each ASSIGNEE, and other good and valuable consideration, receipt of which is acknowledged, have and do hereby assign the following to each ASSIGNEE; their successors and assigns:

the full and exclusive right to the invention;

an equal interest in and to the entire right, title and interest in and to the PATENT RIGHTS in the invention, all continuations, continuations-in-part, divisionals, re-issues, and re-examination patents and patent applications; and the right to claim priority under 35 U.S.C. 119, based on any earlier foreign applications for this invention.

As to all U.S. Patent Applications assigned under this Agreement, the ASSIGNOR(S) hereby authorize(s) and requests the Director of Patents and Trademarks to issue all Letters Patent to the ASSIGNEE(s) as the ASSIGNEE(s) of an equal interest in the entire right, title and interest, for the sole use and enjoyment of said ASSIGNEE(s), their successors and assigns.

Further, the ASSIGNOR(s) agree(s) to communicate to said ASSIGNEE(s), or their representatives, any facts known to the ASSIGNOR(s) respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, substitute, renewal, reexamination and reissue applications, execute all necessary assignment papers to cause any and all Letters Patent to be issued to said ASSIGNEE(s), make all rightful oaths and generally do everything necessary or desirable to aid said ASSIGNEE(s), their successors and assigns, to obtain and enforce proper protection for said invention.

John Lawler  
 (Signature of sole or first assignor) John Lawler

Oct 31, 2007  
 (Date)

\_\_\_\_\_  
 (Signature of second assignor, if any)

\_\_\_\_\_  
 (Date)

\_\_\_\_\_  
 (Signature of third assignor, if any)

\_\_\_\_\_  
 (Date)

\_\_\_\_\_  
 (Signature of fourth assignor, if any)

\_\_\_\_\_  
 (Date)

PATENT

REEL: 020158 FRAME: 0084

PRJ693-1

## ASSIGNMENT DEED

This Assignment agreement is applicable to an invention entitled (Invention Title) HEAT-FLUX BASED EMISSIVITY/ABSORPTIVITY MEASUREMENT

The PATENT RIGHTS referred to in this agreement are:

(Check one) ☐ a Patent Application for this invention, executed by the ASSIGNOR(s) contemporaneously with this Assignment.  
☒ U.S. Patent Application Serial No. 11/231,453 filed 9/21/2007  
☐ U.S. Patent No. \_\_\_\_\_ issued \_\_\_\_\_

The PATENT RIGHTS assigned under this agreement are:

(Check one) ☐ U.S. Patent rights only  
☒ worldwide Patent rights. In this case, the assignee shall have the right to claim the benefit of the filing date of any U.S. Patent Application identified above.

The ASSIGNOR(s) referred to in this agreement is (or are):

(Full name of first assignor) Jungho Kim  
 (Address) 12809 Woodrose Village Terrace  
Rockville, Maryland 20852

(Full name of second assignor, if any) \_\_\_\_\_  
 (Address) \_\_\_\_\_

(Full name of third assignor, if any) \_\_\_\_\_  
 (Address) \_\_\_\_\_

(Full name of fourth assignor, if any) \_\_\_\_\_  
 (Address) \_\_\_\_\_

The First ASSIGNEE referred to in this agreement is:

(Name of Assignee) NTEC, Inc.  
 (Address of Assignee) 7100 Baltimore Avenue, Suite 300  
College Park, Maryland 20740

The Second ASSIGNEE referred to in this agreement is:

(Name of Assignee) \_\_\_\_\_  
 (Address of Assignee) \_\_\_\_\_

## The First ASSIGNEE is:

(Check one) ☐ an individual  
☐ a partnership  
☒ a Corporation of Maryland  
 (State or Country)

## The Second ASSIGNEE is:

(Check one) ☐ an individual  
☐ a partnership  
☐ a Corporation of \_\_\_\_\_  
 (State or Country)

☐ Additional assignees are being named on separately numbered sheets attached hereto.

The ASSIGNOR(S), in consideration of \$1.00 paid by each ASSIGNEE, and other good and valuable consideration, receipt of which is acknowledged, have and do hereby assign the following to each ASSIGNEE, their successors and assigns:

the full and exclusive right to the invention;

an equal interest in and to the entire right, title and interest in and to the PATENT RIGHTS in the invention, all continuations, continuations-in-part, divisions, re-issues, and re-examination patents and patent applications; and the right to claim priority under 35 U.S.C. 119, based on any earlier foreign applications for this invention.

As to all U.S. Patent Applications assigned under this Agreement, the ASSIGNOR(S) hereby authorize(s) and request the Director of Patents and Trademarks to issue all Letters Patent to the ASSIGNEE(s) as the ASSIGNEE(s) of an equal interest in the entire right, title and interest, for the sole use and enjoyment of said ASSIGNEE(s), their successors and assigns.

Further, the ASSIGNOR(s) agree(s) to communicate to said ASSIGNEE(s) or their representatives, any facts known to the ASSIGNOR(s) respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, substitute, renewal, reexamination and reissue applications, execute all necessary assignment papers to cause any and all Letters Patent to be issued to said ASSIGNEE(s), make all rightful oaths and generally do everything necessary or desirable to wit said ASSIGNEE(s), their successors and assigns, to obtain and enforce proper protection for said invention.

Jungho Kim  
 (Signature of sole or first assignor) Jungho Kim

10/31/07  
 (Date)

\_\_\_\_\_  
 (Signature of second assignor, if any)

\_\_\_\_\_  
 (Date)

\_\_\_\_\_  
 (Signature of third assignor, if any)

\_\_\_\_\_  
 (Date)

\_\_\_\_\_  
 (Signature of fourth assignor, if any)

\_\_\_\_\_  
 (Date)

NK 11/10/07

## ASSIGNMENT DEED

This Assignment agreement is made by and between the undersigned, **HEAT-FLUX BASED SENSITIVITY/ABSORPTIVITY MEASUREMENT**.

The FIRST ASSIGNEE referred to in this agreement is:

(Check one) ☒ a Patent Application filed in the U.S. Patent Office by the ASSIGNEE(s) on or before the date of this Assignment, and the ASSIGNEE(s) is/are:  
☒ U.S. Patent Application No. 11/314,453 filed 9/21/2007  
☐ U.S. Patent No. \_\_\_\_\_

The PATENT RIGHTS assigned to the ASSIGNEE(s) are:

(Check one) ☐ U.S. Patent rights only  
☒ worldwide Patent rights. In this case, the assignor(s) shall have the right to add in the future, any one of any U.S. Patent Application identified above.

The ASSIGNEE(s) referred to in this agreement is/are:

(Full name of first assignor, if any) Sayed Maghaddam  
 (Address) 1115 Bay Street, Suite 200  
Champaign, Illinois 61822

(Full name of second assignor, if any) \_\_\_\_\_

(Address) \_\_\_\_\_

(Full name of third assignor, if any) \_\_\_\_\_

(Address) \_\_\_\_\_

(Full name of fourth assignor, if any) \_\_\_\_\_

(Address) \_\_\_\_\_

The FIRST ASSIGNEE referred to in this agreement is:

(Name of Assignor) AT&T, Inc.  
 (Address of Assignor) 7100 Baltimore Avenue, Suite 200  
College Park, Maryland, 20740

The SECOND ASSIGNEE referred to in this agreement is:

(Name of Assignor) \_\_\_\_\_

(Address of Assignor) \_\_\_\_\_

The FIRST ASSIGNEE is:

(Check one) ☐ an individual  
☐ a partnership  
☒ a Corporation, Maryland \_\_\_\_\_ (State or Country)

The SECOND ASSIGNEE is:

(Check one) ☐ an individual  
☐ a partnership  
☐ a Corporation of \_\_\_\_\_ (State or Country)

☐ Additional assignors are being added on separately numbered sheets attached hereto.

The ASSIGNEE(S), in consideration of \$1.00 paid by each ASSIGNEE, and other good and valuable consideration, receipt of which is acknowledged, have and do hereby assign the following to each ASSIGNEE, their successors and assigns:

the full and exclusive right to the invention,  
 an equity interest in and to the entire right, title and interest in and to the PATENT RIGHTS, the right to all  
 continuations, continuations-in-part, divisions, reissues, and re-examination patents and patent applications; and  
 the right to claim priority under 35 U.S.C. 119 for any or all to be filed at procedures for this invention.

As to all U.S. Patent Applications assigned under this Agreement, the ASSIGNEE(S) hereby assigns, vests and transfers the ownership of Patents and Trademarks to, and all the right, title and interest in the ASSIGNEE(S) for a term of years to be determined by the right, title and interest for the life and interest of any ASSIGNEE(s), their successors and assigns.

Further, the ASSIGNEE(S) agrees to communicate to said ASSIGNEE(S), or their representatives, any laws, suits, the ASSIGNEE(S) respecting said invention, and testify in any legal proceedings, sign all legal papers, execute all documents, applications, continuations-in-part, subdivisions, renewals, re-examination and reissue applications, execute all necessary assignments, to make and use any and all Letters Patent to be issued, and ASSIGNEE(S), make and use all papers, and execute all necessary assignments, to make and use any and all Letters Patent to be issued, and ASSIGNEE(S), make and use all papers, and execute all necessary assignments, to make and use any and all Letters Patent to be issued.

Maghaddam 11/10/07  
 (Signature of first assignor, if any) (Date)

\_\_\_\_\_  
 (Signature of second assignor, if any) (Date)

\_\_\_\_\_  
 (Signature of third assignor, if any) (Date)

\_\_\_\_\_  
 (Signature of fourth assignor, if any) (Date)

PATENT

RECORDED: 11/27/2007

REEL: 020158 FRAME: 0086

11/10/07 P.04