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REC

U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

112959 U.S. PTO 11/028805



010405

1. Name of conveying party(ies): Pengju Kang Mohsen Farzad Alan Finn Payman Sadegh

2. Name and address of receiving party(ies) Name: Carrier Corporation Internal Address:

3. Nature of conveyance: [X] Assignment [ ] Merger [ ] Security Agreement [ ] Change of Name [ ] Other Execution Date: 11/29/04; 11/29/04; 12/6/04; 11/29/04

Street Address: P.O. Box 4800 Carrier Parkway City: Syracuse State: NY Zip: 13221 Additional name(s) & address(es) attached? [ ] Yes [X] No

4. Application number(s) or patent number(s): A. Patent Application No.(s) B. Patent No.(s) Additional numbers attached? [ ] Yes [X] No

If this document is being filed together with a new application, enter the date the patent was signed by the first named executing inventor: 11/29/2004

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Karin H. Butchko Internal Address: Carlson, Gaskey & Olds, P.C. Street Address: 400 West Maple Suite 350 City: Birmingham State: Michigan Zip: 48009

6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41): \$ 40.00 [ ] Enclosed [X] Authorized to be charged to deposit account 8. Deposit account number: 03-0835 - Carrier [X] Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17 (Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Karin H. Butchko Name of Person Signing

Signature: Karin Butchko Date: January 4, 2005

Total number of pages including cover sheet, attachments, and documents: 5

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

01/25/2005 6TON11 0000062 030835 11028805 01 FC:0021 40.00 DA

PATENT REEL: 016162 FRAME: 0773

**ASSIGNMENT**  
**(Joint Inventors)**

WHEREAS, We, **Pengju Kang, Mohsen Farzad, Alan Finn, and Payman Sadegh**, (hereinafter referred to as Assignors), residing respectively at **24 Park Place, Apt. 17C, Hartford, CT 06106; 190 Butler Dr., Glastonbury, CT 06033; 19 Cedar Ridge Drive, Hebron, CT 06248; and 15 Dennison Ridge Drive, Manchester, CT 06040**; have invented new and useful improvements in:

**METHOD FOR DETECTING A FAULT IN AN HVAC SYSTEM**

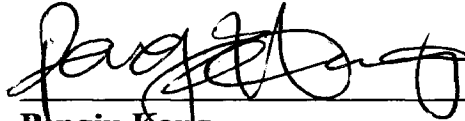
which is set forth in an application for Letters Patent in the United States executed on even date herewith:

AND WHEREAS, **Carrier Corporation**, (hereinafter referred to as Assignee), of **P.O. Box 4800, Carrier Parkway, Syracuse, New York 13221**, is desirous of acquiring the entire right, title and interest in and to said invention and said Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW, THEREFORE, be it known by all whom it may concern, that for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, the Assignors have assigned, sold and set over, and by these presents assign, sell and set over unto the Assignee, its successors, legal representatives and assigns, for the territory of the United States of America and all foreign countries, the entire right, title and interest in and to said invention, said application for Letters Patent, including the right to file foreign patent applications corresponding to said application, and the right to claim the priority date of said United States patent application and any legal equivalents thereof, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and to any and all divisions, continuations, and continuations-in-part of said application, or re-issues or extensions of said Letters Patent or Patents prepared and executed by Assignors on even date herewith, the same to be held and enjoyed by the Assignee, as fully and entirely as the same would have been held by the Assignors had this Assignment and sale not been made.

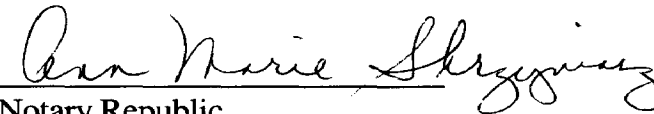
AND the Assignors hereby covenant and agree that the Assignors will at any time upon the request and at the expense of the Assignee execute and deliver any and all papers and do all lawful acts that may be necessary or desirable to perfect the title to said invention and to obtain Letters Patent therefor, and the Assignors hereby authorize and request the Commissioner of Patents to issue said Letters Patent to the said Assignee in accordance with this Agreement.

IN TESTIMONY WHEREOF, I hereunto set my hand and affix my seal at East Hartford, in the State of CT, this 29 day of Nov, 2004.

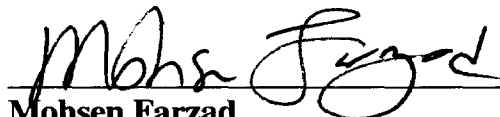
  
\_\_\_\_\_  
**Pengju Kang**

STATE OF CT )  
                          )  
COUNTY OF HARTFORD)

Before me personally appeared said **Pengju Kang**, and acknowledged the foregoing instrument to be his own free act and deed, this 29 day of NOVEMBER, 2004.

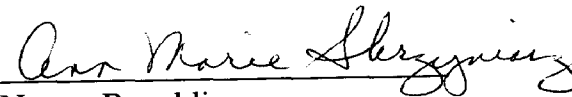
  
\_\_\_\_\_  
Notary Republic  
my COMMISSION EXPIRES JULY 31, 2004

IN TESTIMONY WHEREOF, I hereunto set my hand and affix my seal at E. Hartford, in the State of CT, this 29 day of Nov, 2004.


  
\_\_\_\_\_  
**Mohsen Farzad**

STATE OF CT )  
                          )  
COUNTY OF HARTFORD)

Before me personally appeared said **Mohsen Farzad**, and acknowledged the foregoing instrument to be his own free act and deed, this 29 day of NOVEMBER, 2004.

  
\_\_\_\_\_  
Notary Republic  
my COMMISSION EXPIRES JULY 31, 2007


IN TESTIMONY WHEREOF, I hereunto set my hand and affix my seal at E. Hartford, in the State of CT, this 6 day of Dec, 2004.

  
\_\_\_\_\_

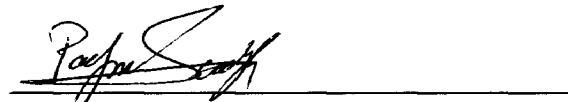
**Alan Finn**

STATE OF CT )  
 )  
COUNTY OF HARTFORD )

Before me personally appeared said **Alan Finn**, and acknowledged the foregoing instrument to be his own free act and deed, this 6 day of DECEMBER, 2004.

  
Notary Republic  
my COMMISSION EXPIRES JULY 31, 2007

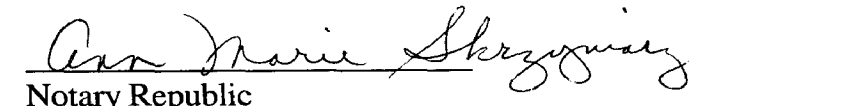
IN TESTIMONY WHEREOF, I hereunto set my hand and affix my seal at EAST HARTFORD, in the State of CT, this 29 day of Nov, 2004.

  
\_\_\_\_\_

**Payman Sadegh**

STATE OF CT )  
 )  
COUNTY OF HARTFORD )

Before me personally appeared said **Payman Sadegh**, and acknowledged the foregoing instrument to be his own free act and deed, this 29 day of NOVEMBER, 2004.

  
Notary Republic  
my COMMISSION EXPIRES JULY 31, 2007