FORM PTO-1595 9/3/07 RE(09-04	-2002 HEET U.S. DEPARTMENT OF COMMERCE	
OMB No. 0651-0011 (exp. 4/94)	Patent and Trademark Office	
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To the Honorable Commissioner of F. 10221	1223	
1. Name of conveying party(ies): 32 050 -3 64 12: 51	2. Name and address of receiving party(ies)	
Gas Research Institute	Name: Varidigm Corporation	
FINANCE SECTION		
	Internal Address: Suite 128	
Additional name(s) of conveying party(ies) attached? □Yes ■No		
3. Nature of conveyance:	Street Address: 2355 Polaris I ane	
■ Assignment □ Merger	Street Address: 2355 Polaris Lane	
☐ Security Agreement ☐ Change of Name		
□ Other	The state of the s	
	City: Plymouth State: Minnesota zip: 55447	
Execution Date: 01 March 2002	Additional name(s) & address(es) attached? □ Yes ■ No	
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the	execution date of the application is:	
A. Patent Application No.(s)	B. Patent No.(s)	
See attached continuation sheet	See attached continuation sheet	
Additional numbers a	ttached? ■ Yes □ No	
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 18	
Name: Roland W. Norris	7. Total fee (37 CFR 3.41)\$ <u>720.00</u>	
Internal Address: Pauley Petersen Kinne & Erickson	■ Enclosed	
	☐ Authorized to be charged to deposit account	
2000 W. A. Hissing Dayd	8. Deposit Account :	
Street Address: 2800 West Higgins Road	(Attach duplicate copy of this page if paying by deposit account)	
Suite 365		
City: Hoffman Estates State: IL Zip: 60195		
9/03/2002 GTON11 00000194 5899686 DO NOT US	E THIS SPACE	
1gFC45Atement and signature. 720.00 CP	is true and correct and any attached copy is a true copy	
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Roland W. Norris	Mgrus 23 August 2002	
Signing Signing	gnature Date	
Reg. No. 32,799 Total number of pages including	cover sheet, attachments, and document: 5	
Mail documents to be recorded	with required cover sheet information to:	
Assistant Commissioner for Patents, Box Assignments		
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I hereby certify that this correspondence (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231 on 23 August 200

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CONTINUATION SHEET

U.S. Patent No.

5,899,686

5,997,285

6,004,129

5,485,953

5,706,190

5,801,940

5,772,501

5,602,758

5,648,772

5,796,234

5,932,981

6,133,699

6,329,783

6,329,785

5,202,951

U.S. Patent Application Serial No.

60/304,954

09/904,428

60/322,133

lar/I

VC-General

ASSIGNMENT PATENTS and PATENT APPLICATIONS

WHEREAS, Gas Research Institute, a non-profit corporation duly organized and existing under and by virtue of the laws of the State of Illinois, and having its principal office and place of business at 1700 S. Mt Prospect Road, Des Plaines, Illinois 60018, hereinafter referred to as ASSIGNOR, has acquired all rights, title and interest in certain new and useful improvements in inventions which are described and claimed in the United States Patents and United States Patent Applications listed on Schedule A attached hereto and made a part hereof by reference; being hereinafter referred to as said "Inventions"; and

WHEREAS, Varidigm Corporation, a corporation duly organized and existing under and by virtue of the laws of the State of Delaware and having its principal office and place of business at 2355 Polaris Lane, Suite 128, Plymouth, Minnesota 55447, hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNOR'S entire rights, title and interest in and to said Inventions and said U.S. Patents listed on Schedule A attached hereto.

NOW THEREFORE BE IT KNOWN THAT, for and in consideration of good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNOR has sold, assigned, transferred and set over and by these presents does hereby sell, assign, transfer and set over to and unto ASSIGNEE, its successors and assigns, the entire right, title and interest in and to said Inventions, and in, to and under the U.S. Patents and U.S. Patent Applications listed on Schedule A attached hereto and any other related applications for Letters Patent therefore of the United States or foreign countries, and in, to and under all divisions, reissues, continuations, extensions and reexaminations thereof, and covenants that ASSIGNOR has the full right so to do and it has not executed and will not execute any agreement in conflict with this Assignment; and the Commissioner of Patents is hereby authorized and requested to issue all United States Letters Patent on said Inventions included herein to ASSIGNEE, as assignee of ASSIGNOR'S entire interest.

Gas Research Institute

By: Thomas C. O'Laughlin

Secretary

Dated: 1,2000

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SCHEDULE A PATENTS

US Patent #	Invention Title	Inventors	Issue Date
5,899,686	Gas Burner Apparatus having Flame Holder Structure with a Contoured Surface	Carbone, Philip; Benedek, Karen; Farina, Michael J.	5/4/99
5,997,285	Burner Housing and Plenum Configuration for Gas-Fired Burners	Carbone, Philip; Benedek, Karen; Farina, Michael J.; Schmidt; Stephan E.	12/7/99
6,004,129	Burner Housing and Plenum Configuration for Gas-Fired Burners	Carbone, Philip; Benedek, Karen; Farina, Michael J.; Schmidt; Stephan E.	12/21/99
5,485,953	Method and Apparatus for Controlling the Circulation of Heat Transfer Fluid for Thermal Conditioning Systems for Spaces	Bassett, William W.; Russ, Robert M.; Webster, Thomas L.	1/23/96
5,706,190	Fault Tolerant HVAC System	Russ, Robert M.; Lincoln, Larry A.; Merry, Nir	1/6/98
5,801,940	Fault Tolerant HVAC System	Russ, Robert M.; Bassett, William W.; Glorioso, Charles A.; Merry, Nir; Lincoln, Larry A.	9/1/98
5,772,501	Indoor Environmental Conditioning System and Method for Controlling the Circulation of Non-Conditioned Air	Russ, Robert M.; Lincoln, Larry A.; Merry, Nir; Webster, Thomas L.	6/30/98
5,602,758	Installation Link-Up Procedure	Russ, Robert M.; Bassett, William W.; Webster, Thomas L.; Merry, Nir; Lincoln, Larry A.	2/11/97
5,648,722	Apparatus and Method for Determining the State of an Electrical Switch within an HVAC System	Merry, Nir ; Hammons, Jack Francis	7/15/97

5,796,234	Variable speed Motor Apparatus and Method for Forming Same From a Split Capacitor Motor	Vrionis, Nick	8/18/98
5,932,981	Apparatus and Method for Reduced Voltage Controller	Vrionis, Nick	8/3/99
6,133,699	Method and Apparatus for Operating a Plurality of Motors with a Single Controller	Vrionis, Nick G.; Russ, Robert M.; Blau, Dave; Farrer, Leland M.	10/17/00
6,329,783	Apparatus for Continuously Variable Speed Elective Motor Applications	Vrionis, Nickolas G.; Eichorn, Ronald L.	12/11/01
6,329,785	Pulse Width Modulated Controlled Induction Motor (4 Step)	Starkie, Alan; Vrionis, Nickolas G.	12/11/01
5,202,951	Mass Flow Rate Control System and Method	Doyle, Edward F.	4/13/93

PATENT APPLICATIONS

US Patent Application #	Invention Title	Inventors	Filing Date
S/N 60/304,954	Multi-Speed Controller for Air Moving Applications Using an AC Induction Motor	Vrionis, Nickolas G.; Ratz, James W.	7/12/01
S/N 09/904,428	Constant CFM Control Algorithum for an Air Moving System Utilizing a Centrifugal Blower Driven by an Induction Motor	Eichorn, Ronald L.	7/12/01
S/N 60/322,133	Variable Output Combustion Controller	Sigafus, Paul E.; Torborg, Ralph H.; Ratz, James W.	9/10/01

PATENT REEL: 013231 FRAME: 0925

RECORDED: 09/03/2002