FORM PTO 1595 1-31-92



U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

101969672

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

1.	Name of conveying party(ies) Dana S. Hauschulz nal name(s) of conveying party(ies) attached? [] Yes [X] No	2. Names and address of receiving party(ies): Name: MKS Instruments, Inc. Address: Six Shattuck Road City, State & Zip: Andover, Massachusetts 01810
Addition	nar name(s) or conveying party (los) analysis []	Additional names & addresses attached? [] Yes [X] No
3.	Nature of conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other Execution Date August 28, 2001	CAN 18 2002
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) 09/907,494	B. Patent No.(s)
	Additional numbers atta	ached? [] Yes [X] No
5.	Name and address of party to whom correspondence concerning document should be mailed: Name: James R. Young Chrisman, Bynum & Johnson, P.C. Street Address: 1900 Fifteenth Street	 Total number of applications and patents involved: One Total fee (37 CFR 3.41) [X] Enclosed (\$40.00) [] Authorized to be charged to deposit account
	City, State, Zip: Boulder, Colorado 80302	Deposit account number: 03-1725(Attached duplicate copy of this page if paying by deposit account)
	DO NOT US	E THIS SPACE
9.	Statement and signature. To the best of my knowledge and belief, the foregoing informoriginal document. Stefan T. Bump Name of person signing Signature	ation is true and correct and any attached copy is a true copy of the $\frac{10.26-01}{\text{Date}}$
		Total number of pages comprising recordation: [3]
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PATENT REEL: 012525 FRAME: 0915 **ASSIGNMENT**

WHEREAS, I, Dana S. Hauschulz, 1207 Aikins Way, Boulder, Colorado 80303, have

invented a certain new and useful HEATER CONTROL SYSTEM WITH COMBINATION

MODULAR AND DAISY CHAINED CONNECTIVITY AND OPTIMUM ALLOCATION OF

FUNCTIONS BETWEEN BASE UNIT AND LOCAL CONTROLLER MODULES, said for which

application for Letters Patent of the United States was filed on July 16, 2001, and assigned Serial

No. 09/907,494;

WHEREAS, MKS Instruments, Inc., of Six Shattuck Road, Andover, Massachusetts 01810,

a corporation fully organized and existing under the laws of the Commonwealth of Massachusetts,

is desirous of acquiring the entire right, title and interest therein and thereto;

NOW, THEREFORE, be it known that for and in consideration of the sum of One Dollar

(\$1.00) and certain other good and valuable consideration to us in hand paid, the receipt of which

is hereby acknowledged, I, the said Dana S. Hauschulz, by these presents do sell, assign and transfer

unto the said MKS Instruments, Inc., its successors, legal representatives and assigns, the entire

rights, title, and interests in and to the said invention and the aforesaid patent application, for the

territory of the United States of America and for all foreign countries and to all Letters Patent,

continuations, reissues, and extensions to be obtained therefor; and I further agree to cooperate with

the assignee hereunder in the obtaining and sustaining of any and all such Letters patent, but at the

expense of said assignee.

I do further agree to execute all applications for patent, assignments, and other appropriate

documents and to perform all acts and to do all things necessary to make this Agreement effective

and to perfect all right, title and interest in and to said discoveries, improvements or inventions in

REEL: 012525 FRAME: 0916

MKS Instruments, Inc., its successors, legal representative and assigns, as the assignee of the entire right, title and interest therein.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal on the date set

forth hereinafter.

Dana S. H

STATE OF COLORADO
)
ss.

COUNTY OF BOULDER
)

Before me, a Notary Public in and for the said County and State, personally appeared DANA S. HAUSCHULZ, known to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 287# day of 449us7, 2001.

(SEAL)

My Commission Expires: 4-21-2002

RECORDED: 01/18/2002

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