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FORM PTO-1595 (Modified) (Rev. 6-93) OMB No. 0651-0011 (exp.4/94) Copyright 1994-97 LegalStar Pod/REV02	المحادة الألابة الألابية المحادثة المحادثة والمحاد	6-2000	EET	U.S. DEPARTMENT OF COMMER(Patent and Trademark Offi
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To the Honorable Commissione	r of Patents and Trade	marks: Please reco	rd the attached c	original documents or copy thereof.
1. Name of conveying party(ies): Thomas O. Maginnis, Jr.			2. Name and address of receiving party(ies):	
		1	Address:	34 No. 1
Additional names(s) of conveying pa	rty(ies) 🗌 Yes 🖾	No	· · · · · · · · · · · · · · · · · · ·	
3. Nature of conveyance				
X Assignment	Merger	Street	ddress: <u>6 Shatt</u>	uck Road
-	-			
Security Agreement	Change of Nar	1	<u>, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	· · · · · · · · · · · · · · · · · · ·
Other		City: <u>A</u>	ndover	State: <u>MA</u> ZIP: 01810
Execution Date: March 28, 2000		A .1.1141		
		Additional I	name(s) & address	e(es) attached? 🔲 Yes 🔀 No
A. Patent Application No.(s)		B	Patent No.(s)	
		ors attached?	Yes 🔀 No	
	hom correspondence	ers attached?	Yes 🔀 No	ions and patents involved:
5. Name and address of party to w	hom correspondence	ers attached?	Yes 🛛 No Imber of applicati	ions and patents involved:
5. Name and address of party to w concerning docurnent should be	rhom correspondence e mailed:	6. Total nu 7. Total fe	res 23 No Imber of applicati e (37 CFR 3.41): losed - Any exce	
5. Name and address cf party to w concerning docurnent should be Name: <u>Toby H. Kusmer, Esq.</u>	rhom correspondence e mailed:	6. Total nu 7. Total fe	res 23 No Imber of applicati e (37 CFR 3.41): losed - Any exce lited or debited to	40.00 ss or insufficiency should be o deposit account
5. Name and address cf party to w concerning docurnent should be Name: <u>Toby H. Kusmer, Esq.</u>	rhom correspondence e mailed:	6. Total nu 6. Total nu 7. Total fe 38 Enc cred 1 Aut	res 23 No Imber of applicati e (37 CFR 3.41): losed - Any exce lited or debited to	40.00 ess or insufficiency should be o deposit account arged to deposit account
5. Name and address cf party to w concerning docurnent should be Name: <u>Toby H. Kusmer, Esq.</u> Internal Address: <u>McDermott,</u>	rhom correspondence e mailed:	6. Total nu 6. Total nu 7. Total fe 28 Enc crea 29 Aut 8. Deposit	Yes 23 No Imber of applicati e (37 CFR 3.41): losed - Any exce lited or debited to norized to be cha account number.	40.00 ess or insufficiency should be o deposit account arged to deposit account
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5. Name and address of party to w concerning document should be Name: Toby H. Kusmer, Esq. Internal Address: McDermott, Street Address: :8 State Street City: Boston /25/2000 DMBUYEN 000001.17 09539109 FC:581 40- 9. Statement and signature.	whom correspondence mailed: Will & Emery State: MA ZIP: 02: D	6. Total nu 6. Total nu 7. Total fe 20 Enc cred 20 Auti 8. Deposit 50-1133 109	Yes 2 No Imber of applicati e (37 CFR 3.41): losed - Any exce lited or debited to norized to be cha account number:	40.00 ess or insufficiency should be o deposit account arged to deposit account
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5. Name and address of party to w concerning document should be Name: Toby H. Kusmer, Esq. Internal Address: McDermott, Street Address: :85:tate Street City: Boston /25/2000 DHSUYEN 000001.1/ 09539109 FC:581 40- 9. Statement and signature. To the best of my knowledge an	whom correspondence mailed: <u>Will & Emery</u> State: <u>MA</u> _ZIP: <u>02</u> D 00 0P d belief, the foregoing	6. Total nu 6. Total nu 7. Total fe 20 Enc cred 20 Auti 8. Deposit 50-1133 109	Yes 29 No Imber of applicati e (37 CFR 3.41): losed - Any exce lited or debited to norized to be cha account number: CE	40.00 ass or insufficiency should be b deposit account arged to deposit account :

REEL: 010720 FRAME: 0980

ASSIGNMENT OF PATENT RIGHTS

I, Thomas O. Maginnis, Jr., residing at 95 Tennis Plaza Road, #18, Dracut, Massachusetts 01826, having invented improvements in CONSTANT TEMPERATURE GRADIENT DIFFERENTIAL THERMAL MASS FLOW SENSOR, and having executed an application for United States patent describing the same and based thereon (authorizing the attorney(s) who are authorized to prosecute said application, to here insert the filing date and serial number of said application, when known, Serial No.

, Filed ______) do hereby sell, assign and transfer unto MKS Instruments, Inc. a Massachusetts Corporation having a principal place of business at 6 Shattuck Road, Andover, MA 01810, USA and hereinafter referred to as the Assignee (which term shall include the successors and assigns), my entire right, title, and interest, in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto, in and to and under said application (which term shall include hereinafter where the context so admits all divisional. continuing, reissue and other patent applications based thereon) and all inventions (which term shall include each and every such invention, or any part thereof) therein described, and any and all patents and like rights of exclusion (including extensions thereof) of any country which may be granted on or for said inventions or on said application.

And I do also hereby sell, assign and transfer unto the Assignee all my rights under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty and all other treaties of like purpose in respect of said inventions and said application, and I do hereby authorize the Assignee to apply in my name or in their own name (in a manner to be agreed upon by the Assignee) or their designee, for patents and like rights of exclusion on or for said inventions in all countries, claiming (if the Assignee so desires) the priority of the filing date of said application under the provisions of said Convention, Treaty or any such other Convention or Treaty;

Ard I do hereby jointly and severally agree for myself and for my respective heirs, executors and administrators, promptly upon request of the Assignee, to execute and deliver without further compensation any power of attorney, assignment, original, divisional, continuing, reissue or other application or applications for patent or patents or like rights of exclusion of any country, or other lawful documents and any further assurances that may be deemed necessary or desirable by the Assignee fully to secure to it said right, title, and interest as aforesaid in and to said inventions, application, and said several patents and like rights of exclusion, or any of them, all, however, at the expense of the Assignee;

And I do hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and the corresponding Official of each country foreign thereto to assue to the Assignee any and all patents and like rights of exclusion which may be granted in any country upon said application or on or for said inventions;

> PATENT REEL: 010720 FRAME: 0981

And I do hereby jointly and severally covenant for myself and for my respective legal representatives and agree with the Assignee that I have granted no right or license to make, use or sell said inventions to anyone except the Assignee, that prior to the execution of this deed my right, title and interest in and to said inventions has not been otherwise encumbered by me, and that I have not executed and will not execute any instrument in conflict herewith.

IN WITNESS WHEREOF, I hereunto set my hand and seal this ______ day of _______, 2000.

Commonwealth of Massac hisselt

Thomas O. Maginnis, Jr.

____day of Warch 2000. Before me this $\frac{2644}{2}$ personally appeared Thomas O. Maginnis, Jr., who is to me personally known, and

personally appeared Thomas O. Maginnis, Jr., who is to me personally known, and acknowledged the foregoing instrument to be his free act and deed.

Notary Public Indating - 2 May Commi Lixpo 10, 25/03 (" ·

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PATENT REEL: 010720 FRAME: 0982

RECORDED: 03/30/2000