

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Martin Fuchs</td> <td>10/21/1997</td> </tr> <tr> <td>John A. Rogers</td> <td>10/21/1997</td> </tr> <tr> <td>Matthew J. Banet</td> <td>10/21/1997</td> </tr> </tbody> </table>		Name	Execution Date	Martin Fuchs	10/21/1997	John A. Rogers	10/21/1997	Matthew J. Banet	10/21/1997
Name	Execution Date								
Martin Fuchs	10/21/1997								
John A. Rogers	10/21/1997								
Matthew J. Banet	10/21/1997								
RECEIVING PARTY DATA									
Name:	Active Impulse Systems, Inc.								
Street Address:	12 Michigan Street								
City:	Natick								
State/Country:	MASSACHUSETTS								
Postal Code:	01760								
PROPERTY NUMBERS Total: 2									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Patent Number:</td> <td>6075602</td> </tr> <tr> <td>Patent Number:</td> <td>6175421</td> </tr> </tbody> </table>		Property Type	Number	Patent Number:	6075602	Patent Number:	6175421		
Property Type	Number								
Patent Number:	6075602								
Patent Number:	6175421								
CORRESPONDENCE DATA									
Fax Number:	(617)523-1231								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
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ATTORNEY DOCKET NUMBER:	AMS-004D1 AND 004D2								
NAME OF SUBMITTER:	Lalitha R. Gunturi								

Total Attachments: 4
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**PATENT
 REEL: 020679 FRAME: 0975**

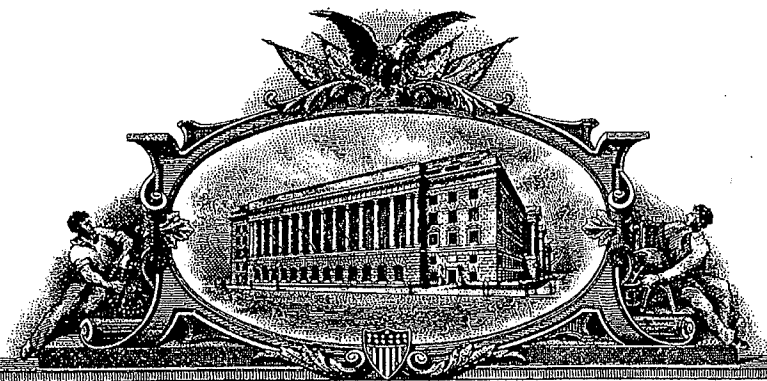
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THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

**UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office**

December 19, 2007

THIS IS TO CERTIFY THAT ANNEXED IS A TRUE COPY FROM THE
RECORDS OF THIS OFFICE OF A DOCUMENT RECORDED ON
March 16, 1998.

By Authority of the
Under Secretary of Commerce for Intellectual Property
and Director of the United States Patent and Trademark Office



L. Wallace
T. WALLACE
Certifying Officer

PATENT

REEL: 020679 FRAME: 0977

Substitute Form PTO-1595

03-23-1998

Attorney Docket No.: 08422/004001

MAR 3-16-98
Assistant Commissioner for Pa

100670633

ER SHEET

Y

document.

MAR 16 1998

1. Name of conveying party(ies):
Martin Fuchs
John A. Rogers
Matthew J. Banet
Additional name(s) attached? Yes No

2. Name and address of receiving party(ies):
Active Impulse Systems, Inc.
12 Michigan Street
Natick, Massachusetts 01780

Additional names/addresses attached? Yes No

3. Nature of conveyance:
 Assignment
 Merger
 Security Agreement
 Change of Name
 Other:

Execution Date: October 21, 1987

4. Application number(s) or patent number(s):
If this document is being filed with a new application, the execution date of the application is:
A. Patent Application No.(s): 08/885,555
B. Patent No.(s):

Additional numbers attached? Yes No

5. Name/address of party to whom correspondence concerning document should be mailed:

Eric L. Prah
Fish & Richardson P.C.
225 Franklin Street
Boston, MA 02110-2804

6. Total number of applications/patents involved: 1

7. Total fee (37 CFR 3.41): \$40.
 Enclosed
 Authorized to charge deposit account

8. Deposit account number: 06-1050
If the fee above is being charged to deposit account, a duplicate copy of this cover sheet is attached. Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.

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 the attached is the original document.

Eric L. Prah
Name of Person Signing

[Signature]
Signature

March 12, 1998
Date

Total number of pages including cover sheet, attachments, and document: 3

Date of Deposit March 12, 1998
I hereby certify under 37 CFR 1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

[Signature]
REEL 004001 FRAME 0747

ASSIGNMENT

For valuable consideration, we, Martin Fuchs, of Uxbridge, Massachusetts; John A. Rogers of Castle Rock, Colorado; and Matthew J. Banet of Cambridge, Massachusetts hereby assign to Active Impulse Systems, Inc., a Massachusetts corporation having a place of business at 12 Michigan Street, Natick, Massachusetts, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled IMPROVED METHOD AND APPARATUS FOR MEASURING MATERIAL PROPERTIES USING TRANSIENT-GRATING SPECTROSCOPY, filed June 30, 1997, and assigned U.S. Serial Number 08/885,555, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, and design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at Natick, Massachusetts
this 21st day of October, 1997
Martin Fuchs L.S.

STATE OF Massachusetts :
COUNTY OF Middlesex : ss.

Before me this 21st day of October, 1997 personally appeared Martin Fuchs known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Paulette L. Johnson
Notary Public

My Commission Expires:

[Notary's Seal Here]

PAULETTE L. JOHNSON
NOTARY PUBLIC
My commission exp. June 19, 1998

PATENT
REEL: 9047 FRAME: 0748

IN WITNESS WHEREOF, I hereto set my hand and seal at Natick, Massachusetts

this 21st day of October, 19 97

John A. Rogers L.S.
John A. Rogers

STATE OF Massachusetts:
COUNTY OF Middlesex: ss.

Before me this 21st day of October, 1997, personally appeared John A. Rogers known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Paulette L. Johnson
Notary Public
My Commission Expires:

PAULETTE L. JOHNSON
NOTARY PUBLIC
My commission exp. June 19, 1998

[Notary's Seal Here]

In Witness Whereof, I hereto set my hand and seal at Natick, Massachusetts

this 21st day of October, 19 97

Matthew J. Banet L.S.
Matthew J. Banet

STATE OF Massachusetts:
COUNTY OF Middlesex: ss.

Before me this 21st day of October, 1997 personally appeared Matthew J. Banet known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Paulette L. Johnson
Notary Public
My Commission Expires:

PAULETTE L. JOHNSON
NOTARY PUBLIC
My commission exp. June 19, 1998

[Notary's Seal Here]

RECORDED: 03/16/1998

PATENT
REEL: 9047 FRAME: 0749