

PATENT  
ASX-079

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	Month	Day	Year
Sylvie Bosch-Charpenay	05	19	2005
Barbara J. Marshik-Geurts	05	13	2005
Leonard I. Kamlet	05	11	2005
Jorge E. Neira	06	14	2005
David F. Marran	06	06	2005

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PATENT

Correspondent Name and Address

Area Code and Telephone Number (617) 526-9600

Name Patent Administrator

Address (line 1) Proskauer Rose LLP

Address (line 2) One International Place

Address (line 3) 22nd Floor

Address (line 4) Boston, MA 02110-2600

Pages Enter the total number of pages of the attached conveyance document including any attachments. 4

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Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

Grid for entering Patent Application Number(s) and Patent Number(s). Includes entry 11/074,307.

Patent Cooperation Treaty (PCT)

Enter PCT application number only if a U.S. Application Number has not been assigned.

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Number of Properties

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# 1

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41):

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Deposit Account

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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. Charges to deposit account are authorized, as indicated herein.

Todd A. Gerety (Reg. No. 51,729)

Signature

6/27/05

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Signature

Date

Mail documents to be recorded with required cover sheet(s) information to:

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Attorney Docket No. **ASX-079 (49548-164)**

**ASSIGNMENT**

WHEREAS, We, **Sylvie Bosch-Charpenay, Barbara J. Marshik-Geurts, Leonard I. Kamlet, Jorge E. Neira and David F. Marran** have invented one or more inventions described in an application (or provisional application) for Letters Patent of the United States entitled:

**METHOD AND APPARATUS OF SIGNAL PROCESSING FOR USE IN SPECTROMETRY  
USING AN IMPROVED APODIZATION FUNCTION**

and identified by

Attorney Docket No. **ASX-079** and/or executed by me on even date herewith and about to be filed in the United States Patent Office;

Serial No. **11/074,307** filed in the United States Patent Office on **March 7, 2005**; and

WHEREAS, **MKS INSTRUMENTS, INC.** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts, and having a usual place of business at **90 Industrial Way, Wilmington, Massachusetts 01887**, desires to acquire an interest therein, in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns, and legal representatives, our entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to the invention(s) described in said application, together with our entire right, title and interest in and to said application and such Letters Patent as may issue thereon or claim priority under United States law or international convention, including but not limited to non-provisionals, continuations, divisionals, reissues, reexaminations, extensions, and substitutions of said application or such Letters Patent, and any right, title and interest we may have in provisional applications to which said application claims priority; said invention(s), applications and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all of our rights arising under or pursuant to any and all United States laws and international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent, including but not limited to any cause(s) of action and damages accruing prior to this assignment. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention(s), carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all Letters Patent to ASSIGNEE in its own name as assignee of our entire right, title and interest therein;

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AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention(s) to said ASSIGNEE, its successors, assigns, and legal representatives, but at its or their expense and charges, including the execution of non-provisional, substitution, continuation, divisional, reissue, reexamination, or corresponding foreign or international patent applications;

AND, we hereby further agree to provide statements or testimony in any interference or other proceeding in which said invention(s) or any application or patent directed thereto may be involved;

AND, we hereby authorize ASSIGNEE or its attorneys or agents to insert the correct serial number and filing date into this assignment, if none is indicated on the date of our execution of this assignment;


AND, we hereby authorize and request the Director of the United States Patent and Trademark Office to issue such Letters Patent as shall be granted upon said application, or applications based thereon, to said ASSIGNEE, its successors, assigns, or legal representatives.

*IN TESTIMONY WHEREOF*, we have hereunto set our hands-and affixed our seals on the date(s) set forth below.

Inventor:   
Sylvie Bosch-Charpenay

State/Commonwealth of Connecticut  
County of Hartford ss

On this 19 day of May, 2005, before me, the undersigned notary public, personally appeared Sylvie Bosch-Charpenay, proved to me through satisfactory evidence of identification, which were CT Drivers License #156198402 visa credit card exp. 3/07 Exp. 2/08, to be the person whose name is signed on the preceding or attached document in my presence.

  
Notary Public  
My Commission Expires: \_\_\_\_\_

**SUSAN A. WHITE**  
**NOTARY PUBLIC**  
MY COMMISSION EXPIRES APR. 30, 2008

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Inventor: *Barbara J. Marshik-Geurts*  
**Barbara J. Marshik-Geurts**

State/Commonwealth of Massachusetts  
County of Middlesex ) ss

On this 13<sup>th</sup> day of May, 2005, before me, the undersigned notary public, personally appeared **Barbara J. Marshik-Geurts**, proved to me through satisfactory evidence of identification, which were known to me, to be the person whose name is signed on the preceding or attached document in my presence.

*Janet C. Addicks*  
Notary Public  
My Commission Expires: 12/03/10

Inventor: *Leonard I. Kamlet*  
**Leonard I. Kamlet**

State/Commonwealth of Massachusetts  
County of Middlesex ) ss

On this 11<sup>th</sup> day of May, 2005, before me, the undersigned notary public, personally appeared **Leonard I. Kamlet**, proved to me through satisfactory evidence of identification, which were MA Driver's License, to be the person whose name is signed on the preceding or attached document in my presence.

*Paula J. Edwards*  
Notary Public  
My Commission Expires: \_\_\_\_\_  
**Paula J. Edwards**  
Notary Public  
My Commission Expires  
July 24, 2009



Inventor: *Jorge E. Neira*  
**Jorge E. Neira**

State/Commonwealth of Maryland  
County of Montgomery ) ss

On this 14<sup>th</sup> day of June, 2005, before me, the undersigned notary public, personally appeared **Jorge E. Neira**, proved to me through satisfactory evidence of identification, which were a MD driver's license to be the person whose name is signed on the preceding or

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attached document in my presence.

*Suzanne Leidenro*  
Notary Public  
My Commission Expires: Feb. 2008

Inventor: *David F. Marran*  
David F. Marran

Connecticut  
State/~~Commonwealth of~~  
County of NEW HAVEN ) ss GUILFORD

On this 6<sup>th</sup> day of JUNE, 2005, before me, the undersigned notary public, personally appeared David F. Marran, proved to me through satisfactory evidence of identification, which ~~were~~ WAS SHOWN, to be the person whose name is signed on the preceding or attached document in my presence.

*Elisa C. Young*  
Notary Public  
My Commission Expires: \_\_\_\_\_  
**ELISA C. YOUNG**  
Notary Public  
State of Connecticut  
My Comm. expires Aug 31, 2006