

**RECORDATION FORM COVER SHEET
 PATENTS ONLY**

U.S. DEPARTMENT OF COMMERCE
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**TO THE DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE:
 PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.**

1. Name(s) Steven M. Arrivo William E. Bowen John P. Higgins Robert A. Reed	Execution Date(s) February 24, 2004 March 8, 2004 March 8, 2004 March 8, 2004	2. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Security Agreement <input type="checkbox"/> Merger <input type="checkbox"/> Change of Name <input type="checkbox"/> Other:
		3. Name and address of receiving party(ies): Name: MERCK & Co., INC. Internal Address: RY60-30 Street Address: P.O. Box 2000 City & State: RAHWAY, NEW JERSEY Zip/Postal Code: 07065-0907 Additional name(s) & addresses attached? <input type="checkbox"/> Yes <input type="checkbox"/> No

4. Application number(s) or patent number(s) are as follows:
 Patent Application No(s). 10/488,604, filed on 9/20/2004
 and titled:
 METHOD FOR MONITORING PARTICLE SIZE

☐ This document is being filed together with a new application.

Additional numbers attached? ☐ Yes ☐ No

5. Name & address of party to whom correspondence concerning documents should be mailed: Name: J. Eric Thies Internal Address: PATENT DEPARTMENT MERCK & CO., INC. P.O. BOX 2000 -- RY60-30 City & State: RAHWAY, N.J. Zip: 07065-0907	6. Total no. of applications & patents involved: 1	7. Total fee (37 CFR 3.41).....\$ 40.00 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> The Director is hereby authorized to charge the deposit account number entered below for any fees which may be required or to credit any overpayment.
8. Deposit account number: 13-2755		

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 any attached copy is a true copy of the original document.

J. Eric Thies Reg. No. 35,382 June 6, 2008
 Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and documents: 5

NOTE: Send to Mail Stop Assignment Recordation Services or Fax to Patent and Trademark Office at (571) 273-0140

CERTIFICATE OF MAILING OR FACSIMILE TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Director of the U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450, or facsimile transmitted to the U.S. Patent and Trademark Office on:

Name (Print/Type) Christine M. Dona

Signature *Christine M. Dona* Date June 6, 2008

CH \$40.00 132755 10488604

Attorney Docket Number 20956YP

U.S. Serial No. 10/488,604

Filing Date 9/20/2004

ASSIGNMENT AND AGREEMENT

For value received, I, Steven M. Arrivo
residing at: 1417 Wells St., Ann Arbor, MI 48104-3912
hereby sell, assign and transfer to MERCK & CO., Inc., a corporation of the State of New Jersey, having an office
at Lincoln Avenue, City of Rahway, State of New Jersey, and its successors, assigns and legal representatives, my entire right,
title and interest, for all countries, in and to certain inventions relating to

METHOD FOR MONITORING PARTICLE SIZE

described in an application for Patents having Attorney Docket Number 20956Y and in application(s) Serial No. 60/316,073
filed on 08/29/2001 ; Serial No. filed on ; Serial No. filed on (if applicable),

Serial No. PCT/US02/26775 filed on 08/23/2002

and all my rights and privileges, including any and all benefits under the International Convention for the Protection of Industrial Property,
under any and all Patents which may be granted therefor, and under any and all extensions, divisionals, reissues and continuations of said
application for Patents, including any foreign applications derived therefrom, equivalent thereto or claiming priority thereof.

I request that any and all Patents for said inventions be issued to said assignee, or to its successors, assigns and legal
representatives, or to such nominees as it may designate.

I agree that, when requested, I will, without charge to said assignee but at its expense, sign all papers, take all rightful
oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining Patents for said inventions in any
and all countries and for vesting title thereto in said assignee, its successors, assigns and legal representatives or nominees.

I covenant with said assignee, its successors, assigns and legal representatives, that the rights and property herein
conveyed are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

I hereby authorize my attorney J. Eric Thies
or an attorney with Power of Attorney in this application, of the said MERCK & CO., Inc., to insert the Serial No., (s) and Filing Date(s)
of said application(s) when known.

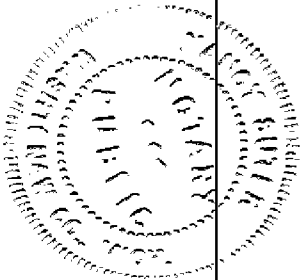
Signed at ANN ARBOR, MI; WASHTENAW CO this 24th day of FEBRUARY, 2004.

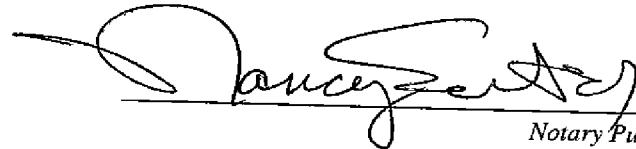

Steven M. Arrivo

Attorney Docket Number 20956U.S. Serial No. 10/488,604Filing Date 9/20/2004**ASSIGNMENT AND AGREEMENT**STATE OF MICHIGANCounty of WASHTENAW

SS.

Personally appeared before me the above-named Steven M. Arrivo
to me known and known to me to be the person who executed the foregoing instrument and acknowledged said instrument to be HIS
free act and deed this 24th day of FEBRUARY, 2004.




Notary Public

NANCY SUTER
Notary Public, Washtenaw County, MI
My Commission Expires Nov. 18, 2005

Attorney Docket Number 20956YP

PATENT

ASSIGNMENT AND AGREEMENT

U.S. Serial No. 10/488,604Filing Date 9/20/2004

For value received, we, William E. Bowen, John P. Higgins and Robert A. Reed

of 149 Executive Drive, Ambler, PA 19002, 8080 Patterson Drive, Lansdale PA 19446, 1327 Hilltown Pike, Line Lexington, PA 18932

hereby sell, assign and transfer to MERCK & CO., Inc., a corporation of the State of New Jersey, having an office at Lincoln Avenue, City of Rahway, State of New Jersey, and its successors, assigns and legal representatives, our entire right, title and interest, for all countries, in and to certain inventions relating to

METHOD FOR MONITORING PARTICLE SIZE

described in an application for Patents having Attorney Docket Number 20956Y
filed on 08/29/2001 Serial No.

filed on

; Serial No.

and in application(s) Serial No. 60/316,073

filed on

(if applicable),

Serial No. PCT/US02/26775

filed on 8/23/2002

and all our rights and privileges, including any and all benefits under the International Convention for the Protection of Industrial Property, under any and all Patents which may be granted therefor, and under any and all extensions, divisionals, reissues and continuations of said application for Patents, including any foreign applications derived therefrom, equivalent thereto or claiming priority thereof.

We request that any and all Patents for said inventions be issued to said assignee, its successor, assigns and legal representatives, or to such nominees as it may designate.

We agree that, when requested, we will, without charge to said assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining Patents for said inventions in any and all countries and for vesting title thereto in said assignee, its successors, assigns and legal representatives or nominees.

We covenant with said assignee, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that we have full right to convey the same as herein expressed.

We hereby authorize our attorney, J. Eric Thies or an attorney with Power of Attorney in this application, of the said MERCK & CO., Inc., to insert Serial No., (s) and Filing Date(s) of said application(s) when known.

Signed at West Point, Pennsylvania this 8th day of March, 2004

William E. Bowen
William E. Bowen

Robert A. Reed
Robert A. Reed

John P. Higgins
John P. Higgins

08 Mar 2004 JPH

PATENT

Attorney Docket Number 20956YP

U.S. Serial No. 10/488,604

Filing Date 9/20/2004

ASSIGNMENT AND AGREEMENT

Commonwealth of PennsylvaniaCounty of Montgomery

SS.

Personally appeared before me the above-named William E. Bowen John P. Higgins Robert A. Reed

to me known and known to me to be the person(s) who executed the foregoing instrument and acknowledged said instrument to be
their free act and deed this 8th day of March, 2004.

Notarial Seal
Brenda Myers, Notary Public
Upper Gwynedd Twp., Montgomery County
My Commission Expires Apr. 11, 2006
Member, Pennsylvania Association of Notaries

Brenda Myers

Notary Public

Signed at _____ this _____ day of _____,

County of _____ } SS.

Personally appeared before me the above-named

to me known and known to me to be the person(s) who executed the foregoing instrument and acknowledged said instrument to be
their free act and deed this _____ day of _____,

Notary Public

PATENT

RECORDED: 06/06/2008

REEL: 021067 FRAME: 0444