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U.S. DEPARTMENT OF COMMERCE
Patent & Trademark Office

OMB No. 0651-0011 (exp. 4/94)

To The Honorable Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies) thereof.

1. Name of conveying party(ies):
James R. Small, Frank M. Fago, Gary S. Wagner, Mitchell A. Smith and Joseph B. Tyson

Additional name(s) of conveying party(ies) attached? ___ Yes XX No

3. Name and address of receiving party(ies):
Name: Mallinckrodt Inc.
Internal Address:
Street Address: 675 McDonnell Boulevard
City: St. Louis
State: MO Zip: 63134

Additional name(s) & address(es) attached? ___ Yes XX No

2. Nature of conveyance:
XX Assignment ___ Merger
___ Security Agreement ___ Change of Name
___ Other _____

Execution Date: July 14, 1999

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) B. Patent No.(s)
Additional numbers attached? ___ Yes XX No

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

Name: Beverly A. Lyman, Esquire
Internal Address: Wood, Herron & Evans, L.L.P.
2700 Carew Tower

Street Address: 441 Vine Street
City: Cincinnati State: Ohio Zip: 45202

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41):\$40.00

XX Enclosed
XX Authorized to be charged to deposit account
If deficiencies occur

8. Deposit Account Number: 23-3000

(Attach duplicate copy of this page if paying by deposit account)

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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.

Beverly A. Lyman, Reg. No. 41,961

Beverly A. Lyman
Signature

July 14, 1999
Date

Total number of pages including cover sheet, attachments, and document(s): 8

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Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents and Trademarks, Box Assignments
Washington, D.C. 20231

ASSIGNMENT OF INVENTION AND
PATENTS THEREON

WHEREAS, I (We), James R. Small, of 2845 Bahns Drive, Beavercreek,
in the State of Ohio 45434, and Frank M. Fago of 4508 Estate Court, Mason, in the
State of Ohio 45040 and Gary S. Wagner, of 695 Arrowwood Circle, Taylor Mill, in
the State of Kentucky 41015 and Mitchell A. Smith, of 2883 Temple Avenue,
Cincinnati, in the State of Ohio 45211 and Joseph B. Tyson of 4215 North Avenue,
#6, Silverton, in the State of Ohio 45236 have invented a new or improved **MEDICAL
FLUID DELIVERY SYSTEM** as fully disclosed in an application for Patent filed herewith
by me (us), preparatory to obtaining Letters Patent of the United States therefor; and
whereas, Mallinckrodt Inc., a Corporation organized under the Laws of the State of
DELAWARE, and having its principal office at 675 McDonnell Boulevard, St. Louis,
Missouri 63134 desires to acquire the entire interest in and to the subject-matter
disclosed in said application and in and to all patents issued or to be issued thereon.

NOW, THEREFORE, to all whom it may concern, be it known that, for and
in consideration of the sum of One Dollar to me (us) in hand paid, and other good and
valuable consideration, the receipt of which is hereby acknowledged, I (we) have sold,
assigned and transferred, and by these presents do sell, assign and transfer unto the
said Mallinckrodt Inc. our entire right, title and interest in and to the subject-matter
disclosed in said application and in and to all Letters Patent Domestic and Foreign
issued or to be obtained thereon, including all rights and interests with priority rights
under the Paris Convention for the Protection of Industrial Property, the International
Patent Cooperative Union, European Patent Convention, Common Market Convention,
or any other Convention or Union for each country of said Convention or Union; and
we do hereby authorize and request the Commissioner of Patents to issue the Letters

Patent granted on said application and all future patents granted upon the subject matter disclosed therein to the above named Assignee, its legal representatives and assigns.

Witness my hand this 14 day of July, 1999.

James R. Small Inventor.
James R. Small

STATE OF Ohio)
COUNTY OF Hamilton) ss.

On this 14 day of July, 1999, before me personally appeared **James R. Small**, to me known and known to me to be the above named individual who duly acknowledged the signing of the foregoing instrument to be a voluntary act and deed and who executed the same for the uses and purposes therein specified.

Barbara R. Hummeldorf
Notary Public

SEAL

BARBARA R. HUMMELDORF
Notary Public, State of Ohio
My Commission Expires April 2, 2001

Witness my hand this 14th day of July, 1999.

Frank M. Fago
Frank M. Fago Inventor.

STATE OF Ohio
COUNTY OF Hamilton) ss.

On this 14 day of July, 1999, before me personally appeared **Frank M. Fago**, to me known and known to me to be the above named individual who duly acknowledged the signing of the foregoing instrument to be a voluntary act and deed and who executed the same for the uses and purposes therein specified.

Barbara R. Hummeldorf
Notary Public

SEAL

BARBARA R. HUMMELDORI
Notary Public, State of Ohio
My Commission Expires April 2, 2001

Witness my hand this 14 day of JULY, 1999.

Gary S. Wagner Inventor.
Gary S. Wagner

STATE OF Ohio
COUNTY OF Hamilton ss.

On this 14 day of July, 1999, before me personally appeared **Gary S. Wagner**, to me known and known to me to be the above named individual who duly acknowledged the signing of the foregoing instrument to be a voluntary act and deed and who executed the same for the uses and purposes therein specified.

Barbara R. Hummeldorf
Notary Public

SEAL

BARBARA R. HUMMELDORF
Notary Public, State of Ohio
My Commission Expires April 2, 2001

Witness my hand this 14 day of July, 1999.

Mitchell A. Smith Inventor.
Mitchell A. Smith

STATE OF Ohio
COUNTY OF Hamilton) ss.

On this 14 day of July, 1999, before me personally appeared **Mitchell A. Smith**, to me known and known to me to be the above named individual who duly acknowledged the signing of the foregoing instrument to be a voluntary act and deed and who executed the same for the uses and purposes therein specified.

Barbara R. Hummeldorf
Notary Public

SEAL

BARBARA R. HUMMELDORF
Notary Public, State of Ohio
My Commission Expires April 2, 2001

Witness my hand this 14 day of July, 1999.

Joseph B. Tyson Inventor.
Joseph B. Tyson

STATE OF Ohio)
COUNTY OF Hamilton) ss.

On this 14 day of July, 1999, before me personally appeared **Joseph B. Tyson**, to me known and known to me to be the above named individual who duly acknowledged the signing of the foregoing instrument to be a voluntary act and deed and who executed the same for the uses and purposes therein specified.

Barbara R. Hummeldorf
Notary Public

SEAL

BARBARA R. HUMMELDORF
Notary Public, State of Ohio
My Commission Expires April 2, 2001