

06-28-1999

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PATENTS ONLY

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1-31-92

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of Conveying party(ies):

C.R. BARD, INC.  
730 CENTRAL AVENUE  
MURRAY HILL, NJ 07974

- Individual(s)                       Association
- General Partnership    Limited Partnership
- Corporation-State - NJ
- Other \_\_\_\_\_

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

3. Nature of conveyance:

- Assignment                       Merger
- Security Agreement    Change of Name
- Other \_\_\_\_\_

Execution Date: DECEMBER 1, 1998

4. Application number(s) or patent number(s):

A. Patent Application No.(s)

Additional numbers attached?    Yes    No

2. Name and address of receiving party(ies):

Name: ARROW INTERNATIONAL, INC.

Internal Address: \_\_\_\_\_

Street Address: 2400 BERNVILLE ROAD

City: READING                      State: PA      ZIP: 19605

- Individual(s) citizenship \_\_\_\_\_
- Association \_\_\_\_\_
- General Partnership \_\_\_\_\_
- Limited Partnership \_\_\_\_\_
- Corporation-State PA \_\_\_\_\_
- Other \_\_\_\_\_

If assignee is not domiciled in the United States, a domestic representative designation is attached:       Yes    No  
(Designations must be a separate document from Assignment)  
Additional name(s) & address(es) attached?    Yes    No

B. Patent No.(s)

SEE ATTACHED EXHIBIT A

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

Name: KATHLEEN S. WETZEL

Internal Address: ARROW INTERNATIONAL, INC.

Street Address: P.O. BOX 12888

City: READING                      State: PA      ZIP: 19612

6. Total number of applications and

Patents involved..... 14

7. Total fee (37 CFR 3.41) ..... \$ \_\_\_\_\_

- Enclosed - \$160
- Authorized to be charged to deposit account

8. Deposit account number:

500862

(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.*

KATHLEEN S. WETZEL

Name of Person Signing

Signature

JUNE 18, 1999

Date

Total number of pages comprising cover sheet:

06/25/1999 NTHA11 00000207 5484385

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160.00 UP

PATENT  
REEL: 010052 FRAME: 0631

Exhibit A

File No.	Country	Appln. No Appln. Date	Patent No. Patent Date	Title	Inventors	Status
290-PDD-94-01	United States	230832 4/21/1994	5484385 1/16/1996	Intra-Aortic Balloon Catheter	M. Rishton	Active
290-PDD-96-02 CON	United States	658386 6/5/1996		Intra-Aortic Balloon Catheters	R. Andrews, W. Edelman, R. O'Brien, J. Levendusky	Active
290-PDD-96-02 DIV	United States	484894 6/7/1995	5718861 2/17/1998	Intra-Aortic Balloon Catheters	R. Andrews, W. Edelman, R. O'Brien, J. Levendusky	Active
290-PDF-96-02	Canada	2185920 3/20/1995		Intra-Aortic Balloon Catheters	R. Andrews, W. Edelman, R. O'Brien, J. Levendusky	Active
290-PDF-96-02	Europe	95914123.5 3/20/1995		Intra-Aortic Balloon Catheters	R. Andrews, W. Edelman, R. O'Brien, J. Levendusky	Active

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File No.	Country	Appln. No Appln. Date	Patent No. Patent Date	Title	Inventors	Status
290-PDF-96-02	PCT	PCT/US95/03464 3/20/1995		Intra-Aortic Balloon Catheters	R. Andrews, W. Edelman, R. O'Brien, J. Levendusky	Active
290-PDD-96-03	United States	210551 3/18/1994	5524757 6/11/1996	Packaging Sheaths for Intra-Aortic Balloon Catheters	Robert Andrews, William Edelman, Ilyssa Hunt	Active
290-PDD-96-03 DIV	United States	483923 6/7/1995		Packaging Sheaths for Intra-Aortic Balloon Catheters	Robert Andrews, William Edelman, Ilyssa Hunt	Active
290-PDF-96-03	Canada	2185814 3/20/1995		Packaging Sheaths for Intra-Aortic Balloon Catheters	Robert Andrews, William Edelman, Ilyssa Hunt	Active
290-PDF-96-03	Europe	95914124.3 3/20/1995		Packaging Sheaths for Intra-Aortic Balloon Catheters	Robert Andrews, William Edelman, Ilyssa Hunt	Active
290-PDF-96-03	Japan	524755/95 3/20/1995		Packaging Sheaths for Intra-Aortic Balloon Catheters	Robert Andrews, William Edelman, Ilyssa Hunt	Active
290-PDF-96-03	PCT	PCT/US95/03465 3/20/1995		Packaging Sheaths for Intra-Aortic Balloon Catheters	Robert Andrews, William Edelman, Ilyssa Hunt	Active
290-PDD-96-04 DIV1	United States	477866 6/7/1995		Intra-Aortic Balloon Pump Device	William Edelman	Active

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PATENT

REEL: 010052 FRAME: 0633

File No.	Country	Appl. No Appl. Date	Patent No. Patent Date	Title	Inventors	Status
290-PDD-96-04 DIV2	United States	654014 5/28/1996		Intra-Aortic Balloon Pump Device	William Edelman	Active
290-PDD-96-04 CON of DIV1	United States	768333 12/17/1996		Intra-Aortic Balloon Pump Device	William Edelman, Mark Kieras, Peter Majeski	Active
290-PDD-96-04 CON of DIV2	United States	955873 10/22/1997		Intra-Aortic Balloon Pump Device	William Edelman, Mark Kieras, Peter Majeski	Active
290-PDF-96-04	Canada	2179510 12/19/1994		Intra-Aortic Balloon Pump Device	William Edelman	Active
290-PDF-96-04	Europe	95906051.8 12/19/1994		Intra-Aortic Balloon Pump Device	William Edelman	Active
290-PDF-96-04	Japan	517569/95 12/19/1994		Intra-Aortic Balloon Pump Device	William Edelman	Active
290-PDF-96-04	PCT	PCT/US94/14721 12/19/1994		Intra-Aortic Balloon Pump Device	William Edelman	Active
290-PDD-96-05	United States	29/020632 3/30/1994	D387168 12/2/1997	Control Station (Model 800 IAB) (Design)	W. Edelman, R. Pignatone, C. Dandreta, J. Maynard	Active
290-PDD-96-07	United States	29/041918 7/7/1995		Medical Device Tray (Design)	I. Hunt, J. Curran, C. Kellstedt, J. Lieblein	Active

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File No.	Country	Appl. No Appl. Date	Patent No. Patent Date	Title	Inventors	Status
290-PPD-96-06	United States	29/041,187 7/7/97	D376652 12/17/96	Medical Device Tray (Design)	Hunt, Curran, Kellstedt	Active
290-PDD-96-08	United States	909698 9/19/1986	4738658 4/19/1988	Tapered Hemostatic Device for Use in Conjunction with a Catheter for Alleviating Blood Leak	Alfred Magro, Michael Rishton	Active
290-PDD-96-10	United States	187053 4/27/1988	4976681 12/11/1990	Pacer Interface Device	Alfred Magro	Active
290-PDD-96-11	United States	619015 6/11/1984	4646719 3/3/1987	Intra-Aortic Balloon Catheter Having Torque Transmitting Tube	Harold Leuman, Edward Lombardi	Active

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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.*

KATHLEEN S. WETZEL

FEBRUARY 26, 1999

Name of Person Signing

Signature

Date

Total number of pages comprising cover sheet:

03/23/1999 DWGUYEN 00000006 5484385

Q1 FC:581

560.00 OP

## ASSIGNMENT OF PATENTS

Assignment made this 1st day of December, 1998 by C.R. BARD, INC., a corporation organized and existing under the laws of the State of New Jersey with an office at 730 Central Avenue, Murray Hill, New Jersey 07974 (the "ASSIGNOR") to ARROW INTERNATIONAL, INC., a corporation organized under the laws of the State of Pennsylvania, with an office at 2400 Bernville Road, Reading, Pennsylvania 19605 (the "ASSIGNEE").

### WITNESSETH:

WHEREAS, ASSIGNOR and ASSIGNEE have entered into an Asset Purchase Agreement dated as of August 7, 1998, as amended (the "Purchase Agreement") and this assignment is being executed pursuant to the Purchase Agreement; and

WHEREAS, capitalized terms used herein and not otherwise defined herein shall have the same meaning as defined in the Purchase Agreement; and

WHEREAS, ASSIGNOR owns certain patents set forth in Exhibit A hereto and all divisions, continuations, continuations in part and reissues thereof (the "Bard Patents") and ASSIGNEE desires to obtain from ASSIGNOR an assignment of the Bard Patents.

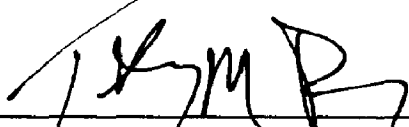
NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR hereby agrees as follows:

1. ASSIGNOR hereby sells, assigns, transfers and sets over unto ASSIGNEE and its successors and assigns all of the ASSIGNOR's entire right, title and interest in and to the Bard Patents and proceeds thereof, and the right to foreign counterparts to the Bard Patents, and the right to recover damages and/or profits from third parties arising from any past, present or future infringement of the Bard Patents.

2. Upon reasonable request of ASSIGNEE, ASSIGNOR further agrees to execute such additional documents as may be reasonably required to effect the foregoing assignment.

IN WITNESS WHEREOF, ASSIGNOR has caused this Assignment of Patents Agreement to be duly executed this 1<sup>st</sup> day of December, 1998.

C.R. BARD, INC.

By:   
Name: Timothy M. Ring  
Title: Group President

CORPORATE ACKNOWLEDGMENT

UNITED STATES OF AMERICA )  
COMMONWEALTH )  
OF MASSACHUSETTS ) SS.:  
COUNTY OF SUFFOLK )

On the 1st day of December, 1998 before me personally appeared TM King to me known, who, being by me duly sworn, did depose and say that he is President of C.R. BARD, INC. described in and which executed the foregoing instrument; that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal; that it was so affixed by authority of the Board of Directors of said corporation and that he signed his name thereto by like authority.

Eileen Palsifer  
Notary Public  
My Comm. Exp. 9/23/01

[SEAL]