

09-16-2003

Form PTO-1595

(Rev. 10/02)

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Tab settings

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U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

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

## 1. Name of conveying party(ies):

Jozef Reinier Cornelis Jansen (Executed on 08/27/03)  
Johannes Jacobus Schreuder (Executed on 08/29/03)

9-11-03

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

## 3. Nature of conveyance:

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

Execution Date: see above

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

Name: Arrow International, Inc.Street Address: 2400 Bernville RoadCity: Reading State: PA Zip: 19605Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 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)

10/297,118

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Alan D. MillerInternal Address: Amster, Rothstein & EbensteinStreet Address: 90 Park AvenueCity: New York State: NY Zip: 100166. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41).....\$ 40.00

- ☒ Enclosed  
☐ Authorized to be charged to deposit account

## 8. Deposit account number:

01-1785

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

## 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.*Alan D. Miller - Reg. No. 42,889

Name of Person Signing

Signature

September 11, 2003

Date

Total number of pages including cover sheet, attachments, and documents: 9

Mail documents to be recorded with required cover sheet information to:

Mail Stop Assignment Recordation Services, Commissioner for Patents,  
P.O. Box 1450, Alexandria, VA 22313-1450

09/16/2003 LMUELLER 00000076 10297118

01 FC:8021

40.00 DP

PATENT  
REEL: 014483 FRAME: 0564

## ASSIGNMENT

WHEREAS, JOZEF REINIER CORNELIS JANSEN, a citizen of The Netherlands, residing at Aster 8, NL-2211 MZ Noordwijkerhout, The Netherlands, and JOHANNES JACOBUS SCHREUDER, a citizen of The Netherlands, residing at Via Eleonora Duse 32, I-21100 Varese, Italy, (hereinafter "the Assignors"), have invented certain new and useful improvements in APPARATUS FOR CONTROLLING HEART ASSIST DEVICES, for which the following patent applications have been filed:

Dutch Application No. NL 1016320, filed October 3, 2000,  
PCT International Application No. PCT/NL01/00713, filed October 1, 2001, and  
as corresponding national or regional phases thereof,  
U.S. Application No. 10/297,118,  
Australian Application No. 202211070,  
Canadian Application No. 2,411,030,  
European Application No. 01979081.5, and  
Japanese Application No. 2002-531911.

WHEREAS, ARROW INTERNATIONAL, INC. (hereinafter "the Assignee"), a corporation organized under the laws of the Commonwealth of Pennsylvania, having a

principal place of business at 2400 Bernville Road, Reading, Pennsylvania 19605 is desirous of acquiring the entire right, title and interest in and to said applications and the invention described therein, and each and every patent that can be issued on said applications and on said invention in the United States of America and in its territories and possessions, and in all countries foreign to the United States of America;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for good and valuable consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do hereby sell, assign and transfer unto the Assignee the full and exclusive right, title and interest in and to the aforesaid invention, the aforesaid applications, any and all foreign counterparts thereto including any and all applications filed in countries designated in the aforesaid PCT application, any and all continuations, divisionals, reissues and reexaminations of the aforesaid applications which cover the invention and any and all improvements thereof disclosed in the aforesaid applications, and each and every patent that may be issued on the aforesaid invention and applications in the United States of America, and in its territories and possessions and also in all countries foreign to the United States of America, the same to be held and enjoyed by the Assignee for its own use and benefit, and for the use and benefit of its successors, assigns or other legal representatives to the

Docket No: 3600/229  
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Japanese Appl. No. 2002-531911

end of the term or terms for which a patent or patents may be granted as fully and entirely as the same would have been held and enjoyed by Assignors if this Assignment had not been made.

Assignors hereby covenant that no assignment, sale, agreement, or encumbrance has been, or will be, made or entered into which would conflict with this Assignment.

Assignors hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patent on the aforesaid invention or resulting from the aforesaid applications directly to the Assignee.

Assignors hereby authorize the Assignee and its successors to apply for a patent or patents directly in its own name, or in Assignors' name at Assignee's election, upon the aforesaid invention wherever the same is permitted by law, and also assign, sell, transfer and set over unto the Assignee and its successors all priority rights under the aforesaid applications.

Assignors further covenant to execute all additional instruments and to do all things necessary to carry out the purpose of this instrument, at the expense of the Assignee and its successors. Assignors covenant and agree to execute or procure any further necessary assurance of the title to said invention, and any Letters Patent which may issue therefor, and to, at any time, upon the request and at the expense of Assignee,

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deliver any testimony in any interference, litigation, or proceeding related thereto, and to execute all papers that may be necessary or desirable to perfect the title to said invention, or any Letters Patent which may be granted therefor in Assignee, its successors, assigns, or other legal representatives, and to, at any time, upon the request and at the expense of Assignee, execute any continuation, continuation-in-part, divisional, renewal, or substitute thereof, and, as to Letters Patent, any reissue or re-examination thereof, or any other additional applications for Letters Patent for said invention or any part thereof, all of which applications and any Letters Patent issuing thereon are hereby assigned to Assignee, will make all rightful oaths or declarations, and do all lawful acts requisite for procuring the same therein, at the expense of Assignee, its successors, assigns, or other legal representatives.

IN WITNESS WHEREOF, Assignors have hereunto set their hands:

  
\_\_\_\_\_  
JOZEF REINIER CORNELIS JANSEN

August 27, 2003  
\_\_\_\_\_  
Date

\_\_\_\_\_  
JOHANNES JACOBUS SCHREUDER

\_\_\_\_\_  
Date

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Assignors hereby authorize the Assignee and its successors to apply for a patent or patents directly in its own name, or in Assignors' name at Assignee's election, upon the aforesaid invention wherever the same is permitted by law, and also assign, sell, transfer and set over unto the Assignee and its successors all priority rights under the aforesaid applications.

Assignors further covenant to execute all additional instruments and to do all things necessary to carry out the purpose of this instrument, at the expense of the Assignee and its successors. Assignors covenant and agree to execute or procure any further necessary assurance of the title to said invention, and any Letters Patent which may issue therefor, and to, at any time, upon the request and at the expense of Assignee,



deliver any testimony in any interference, litigation, or proceeding related thereto, and to execute all papers that may be necessary or desirable to perfect the title to said invention, or any Letters Patent which may be granted therefor in Assignee, its successors, assigns, or other legal representatives, and to, at any time, upon the request and at the expense of Assignee, execute any continuation, continuation-in-part, divisional, renewal, or substitute thereof, and, as to Letters Patent, any reissue or re-examination thereof, or any other additional applications for Letters Patent for said invention or any part thereof, all of which applications and any Letters Patent issuing thereon are hereby assigned to Assignee, will make all rightful oaths or declarations, and do all lawful acts requisite for procuring the same therein, at the expense of Assignee, its successors, assigns, or other legal representatives.

IN WITNESS WHEREOF, Assignors have hereunto set their hands:

JOZEF REINIER CORNELIS JANSEN

Date

  
JOHANNES JACOBUS SCHREUDER

29/08/03  
Date

XX