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OMB No. 0651-0027 (exp. 6/30/2005)



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To the Honorable Commissioner of Patents

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original documents or copy thereof

OFFICE OF PUBLIC RECORDS

FINANCE SECTION

2003 JUL 24 AM 11:56

1. Name of conveying party(ies): SeQual Technologies Inc.

2. Name and address of receiving party(ies)

Name: Teijin Limited

Internal Address:

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

3. Nature of conveyance:

- Assignment  Merger  Security Agreement  Change of Name  Other

Street Address: 6-7, Minamihonmachi 1-chome

Chuo-ku

City: Osaka Country: Japan Zip: 541-8587

Additional Name(s) & address(es) attached?  Yes  No

Execution Date: July 16, 2003

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)

09/632,099  
10/105,657  
10/134,868

B. Patent No.(s)

4,925,464  
5,114,441  
5,112,367

Additional numbers attached?  Yes  No

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

Name: Aaron Winger

Internal Address: Squire, Sanders & Dempsey L.L.P.

Street Address: 600 Hansen Way

City: Palo Alto State: CA Zip: 94304-1043

6. Total number of applications and patents involved: 25

7. Total fee (37 CFR 3.41) \$ 1,000.00

- Enclosed  Authorized to be charged to deposit account

8. Deposit account number:

05-0150

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

07/29/2003 670M11 00000121 050150 09632099

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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.

Aaron Winger, Reg. No. 45,229  
Name of Person Signing

Signature

July 24, 2003

Date

Total number of pages including cover sheet, attachments, and documents: 13

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

ATTACHMENT TO RECORDATION FORM COVER SHEET

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

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)

10/143,373  
09/343,149  
09/342,890  
09/420,892  
PCT/US92/01510  
PCT/US96/20392  
PCT/US98/11154  
PCT/US00/21400  
PCT/US02/23181  
PCT/US03/13496

Re. 35,099  
5,268,021  
5,366,541  
5,593,478  
5,730,778  
5,979,440  
6,311,719  
6,457,485  
6,471,744

Additional numbers attached?  Yes  No

PaloAlto/56375.1

## ASSIGNMENT

This Assignment is made by SeQual Technologies Inc., Assignor, a California corporation having a place of business at 11436 Sorrento Valley Road, San Diego, California 92121, to Teijin Limited, Assignee, a corporation organized under the laws of Japan having a place of business at 6-7, Minamihonmachi 1-chome, Chuo-ku, Osaka 541-8587 Japan.

WHEREAS, Assignor is the sole owner of the patents and applications for United States Letters Patent identified on the attached schedule, and all Letters Patent in the United States and throughout the world that may be granted or issued from such applications;

WHEREAS, pursuant to an agreement between the parties (the "Agreement"), Assignor has agreed to assign to Assignee an undivided fifty-percent (50%) ownership interest in and to said applications and patents, any Letters Patent that may be granted or issued from such applications, and all divisionals, continuations, reexaminations, reissues, renewals or extensions or additions to any such patent applications and patents, as well as all foreign counterparts thereof; in each case which have application within the Medical Field (collectively, the "Invention Patents"); and Assignee has agreed not to exercise its rights under such Invention Patents outside of the Medical Field;

WHEREAS, as used herein, the "Medical Field" means the treatment of any disease, state or condition in humans through use of gas separation devices, which devices are intended for personal use, but excluding the use of such devices for modifying the gas mixture in a room or facility;

WHEREAS, the parties desire to have a recordable instrument documenting such assignment;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and pursuant to an agreement between Assignor and Assignee, Assignor hereby assigns to Assignee, an undivided fifty-percent (50%) ownership

interest in and to each of the Invention Patents, including without limitation, the rights to file foreign applications directly in the name of Assignee and Assignor, as joint owners, and to claim for any such foreign applications any priority rights to which such applications are entitled under international conventions, treaties or otherwise.

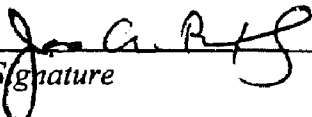
Assignor represents and warrants that he has not granted and will not grant to others any rights inconsistent with the rights granted herein.

Assignor authorizes and requests the Commissioner of Patents and Trademarks of the United States and of all foreign countries to issue any Letters Patent granted for said inventions, whether on said applications or on any subsequently filed divisional, continuation, or reissue applications that have application within the Medical Field, to Assignee and Assignor, and their respective successors and assigns, as joint owners of said inventions.

IN WITNESS WHEREOF, Assignor has executed this Assignment on the date

provided below.

**Sequal Technologies Inc.**

  
\_\_\_\_\_  
*Signature*

CEO, Chairman of the Board  
*Title*

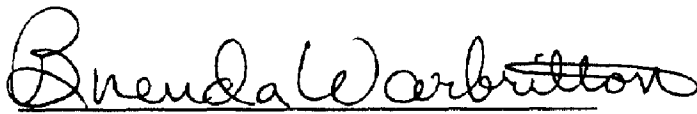
July 16, 2003  
*Date*

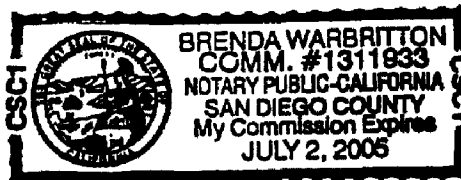
STATE OF California)

COUNTY OF San Diego)

On July 16, 2003, before me, Brenda Warbritton, a Notary Public, personally appeared James A. Bixby, proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity(ies), and that by his/~~her/their~~ signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS by hand and official seal.

  
\_\_\_\_\_  
(Signature of Notary)



**SCHEDULE TO PATENT ASSIGNMENT**

I. Issued U.S. Patents

|   | <b>U.S. Patent No.</b> | <b>Title<br/>(Atty. Docket No.)</b>  | <b>Issue Date</b> | <b>Inventors</b>  |
|---|------------------------|--|-------------------|---|
| 1 | 4,925,464              | Fluid Flow Switching Valve<br>Assembly and System<br><br>(109834.000001)   | 5/15/90           | Richard Rabenau<br><br>Rowland W. Kanner<br><br>Donald W. Hunter                      |
| 2 | 5,112,367              | Fluid Fractionator<br><br>(109834.000019)  | 5/12/92           | Charles C. Hill   |
| 3 | RE 35,099              | Fluid Fractionator<br><br>(109834.000020)  | 11/28/95          | Charles C. Hill   |
| 4 | 5,114,441              | Oxygen Concentrator System<br>and Valve Structure<br><br>(109834.000003)   | 5/19/92           | Rowland W. Kanner<br><br>Stephen P. Lisak   |
| 5 | 5,268,021              | Fluid Fractionator<br><br>(109834.000021)  | 12/7/93           | Charles C. Hill<br><br>Theodore B. Hill   |
| 6 | 5,366,541              | Fluid Fractionator<br><br>(109834.000017)  | 11/22/94          | Charles C. Hill<br><br>Theodore B. Hill   |
| 7 | 5,593,478              | Fluid Fractionator (AKA<br>Improved Fluid Fractionator)<br><br>(109834.000018)   | 1/14/97           | Charles C. Hill<br><br>Theodore B. Hill   |
| 8 | 5,730,778              | Fluid Fractionator<br><br>(109834.000014)  | 3/24/98           | Charles C. Hill<br><br>Theodore B. Hill   |
| 9 | 5,979,440              | Methods and Apparatus to<br>Generate Liquid Ambulatory<br>Oxygen from an Oxygen<br>Concentrator<br><br>(109834.000023) | 11/9/99           | Scott C. Honkonen<br><br>Theodore B. Hill<br><br>Charles C. Hill<br><br>Graham Walker |

|    | U.S. Patent No. | Title<br>(Atty. Docket No.)   | Issue Date | Inventors   |
|----|-----------------|---|------------|---|
| 10 | 6,311,719       | Rotary Valve Assembly for<br>Pressure Swing Adsorption<br>System<br><br>(109834.000004)                       | 11/6/01    | Theodore B. Hill<br><br>Charles C. Hill<br><br>Adam C. Hansen |
| 11 | 6,457,485       | Rotary Valve Assembly for<br>Pressure Swing Absorption<br>System<br><br>(109834.000005)                       | 10/1/02    | Theodore B. Hill<br><br>Charles C. Hill<br><br>Adam C. Hansen |
| 12 | 6,471,744       | Vacuum-Pressure Swing<br>Adsorption Fluid Fractionator<br>and Method of Using the Same<br><br>(109834.000006) | 10/29/02   | Theodore B. Hill  |

II. U.S. Patent Applications

|    | U.S.<br>Application No. | Title<br><br>(Atty. Docket No.)  | Filing Date | Inventors   |
|----|-------------------------|--|-------------|---|
| 13 | 09/342,890              | Methods and Apparatus to Generate Liquid Ambulatory Oxygen from an Oxygen Concentrator.<br><br>(109834-000028) | 6-29-99     | Scott C. Honkonen<br><br>Theodore B. Hill<br><br>Charles C. Hill<br><br>Graham Walker     |
| 14 | 09/343,149              | Methods and Apparatus to Generate Liquid Ambulatory Oxygen from an Oxygen Concentrator.<br><br>(109834-000022) | 6-29-99     | Scott C. Honkonen<br><br>Theodore B. Hill<br><br>Charles C. Hill<br><br>Graham Walker     |
| 15 | 09/420,892              | Methods and Apparatus to Generate Liquid Ambulatory Oxygen from an Oxygen Concentrator.<br><br>(109834-000033) | 10-19-99    | Scott C. Honkonen<br><br>Theodore B. Hill<br><br>Charles C. Hill<br><br>Graham Walker     |
| 16 | 09/632,099              | Portable Oxygen Concentration System and Method of Using the Same<br><br>(109834-000002)                       | 8-3-00      | Theodore B. Hill<br><br>Edward A. Radtke<br><br>Robert A. Schneider<br><br>James A. Bixby |
| 17 | 10/105,657              | Portable Oxygen Concentration System and Method of Using the Same<br><br>(109834-000035)                       | 3-25-02     | Theodore B. Hill<br><br>Edward A. Radtke<br><br>Robert A. Schneider<br><br>James A. Bixby |



|    | U.S.<br>Application No. | Title<br>(Atty. Docket No.)  | Filing Date | Inventors  |
|----|-------------------------|--|-------------|--|
| 18 | 10/134,868              | Portable Oxygen Concentration System and Method of Using the Same<br><br>(109834-000034) | 4-29-02     | William Scot Appel<br><br>David Phillip Winter<br><br>Brian Kenneth Sward<br><br>Masato Sugano<br><br>Edmund L. Salter<br><br>James A. Bixby |
| 19 | 10/143,373              | Rotary Valve Assembly for Pressure Swing Adsorption System<br><br>109834-000039)         | 5-10-02     | Theodore B. Hill<br><br>Charles C. Hill<br><br>Adam C. Hansen  |

III. International and Foreign Applications, Publications and Issued Patents

|    | Application,<br>Publication or Patent<br>No. | Title<br>(Country)<br>(Atty. Docket No.)   | Priority<br>Date | Applicant                 |
|----|--|--|------------------|---------------------------|
| 20 | WO 93/16786<br><br>(PCT/US92/01510)          | Improved Fluid Fractionator<br><br>(PCT)<br><br>(109834-000029)                                | 2-28-92          | SeQual Technologies, Inc. |
| 21 | Canada 2,296,881                             | Fluid Fractionator (AKA<br>Improved Fluid Fractionator)<br><br>(Canada)<br><br>(109834-000012) | 2-28-92          | SeQual Technologies, Inc. |
| 22 | Canada<br><br>2,130,824                      | Improved Fluid Fractionator<br><br>(Canada)<br><br>(109834-000013)                             | 2-28-92          | SeQual Technologies, Inc. |

|    | <b>Application,<br/>Publication or Patent<br/>No.</b> | <b>Title<br/><br/>(Country)<br/><br/>(Atty. Docket No.)</b>   | <b>Priority<br/>Date</b> | <b>Applicant</b>          |
|----|---|---|--------------------------|---------------------------|
| 23 | EP Patent 0627953 –<br>Germany                        | Fluid Fractionator (AKA<br>Improved Fluid Fractionator)<br><br>(Germany)<br><br>(109834-000015)                                     | 2-28-92                  | SeQual Technologies, Inc. |
| 24 | EP Patent 0627953 –<br>France                         | Fluid Fractionator (AKA<br>Improved Fluid Fractionator)<br><br>(France)<br><br>(109834-000015)                                      | 2-28-92                  | SeQual Technologies, Inc. |
| 25 | EP Patent 0627953 – UK                                | Fluid Fractionator (AKA<br>Improved Fluid Fractionator)<br><br>(UK)<br><br>(109834-000015)  | 2-28-92                  | SeQual Technologies, Inc. |
| 26 | WO 98/28061<br><br>(PCT/US96/20392)                   | Improved Fluid Fractionator<br><br>(PCT)<br><br>(No Docket No.)   | 9-28-94                  | SeQual Technologies, Inc. |
| 27 | Canada 2,275,685                                      | Improved Fluid Fractionator<br><br>(Canada)<br><br>(109834-000010)  | 9-28-94                  | SeQual Technologies, Inc. |
| 28 | Europe 96945242.4                                     | Improved Fluid Fractionator<br><br>(Europe)<br><br>(109834-000016)  | 9-28-94                  | SeQual Technologies, Inc. |
| 29 | WO 98/58219<br><br>(PCT/US98/11154)                   | Methods and Apparatus to<br>Generate Liquid Ambulatory<br>Oxygen from an Oxygen<br>Concentrator<br><br>(PCT)<br><br>(109834-000027) | 6-16-97                  | SeQual Technologies, Inc. |

|    | <b>Application,<br/>Publication or Patent<br/>No.</b> | <b>Title<br/><br/>(Country)<br/><br/>(Atty. Docket No.)</b>   | <b>Priority<br/>Date</b> | <b>Applicant</b>          |
|----|---|---|--------------------------|---------------------------|
| 30 | Canada 2,293,287                                      | Methods and Apparatus to<br>Generate Liquid Ambulatory<br>Oxygen from an Oxygen<br>Concentrator<br><br>(Canada)<br><br>(109834-000024)  | 6-16-97                  | SeQual Technologies, Inc. |
| 31 | EP Patent 0990107 –<br>Germany                        | Ambulatory Oxygen Concentrator<br>Liquefaction System (AKA<br>Methods and Apparatus to<br>Generate Liquid Ambulatory<br>Oxygen from an Oxygen<br>Concentrator)-<br><br>(Germany)<br><br>(109834-000031) | 6-16-97                  | SeQual Technologies, Inc. |
| 32 | EP Patent 0990107 –<br>France                         | Ambulatory Oxygen Concentrator<br>Liquefaction System (AKA<br>Methods and Apparatus to<br>Generate Liquid Ambulatory<br>Oxygen from an Oxygen<br>Concentrator)-<br><br>(France)<br><br>(109834-000030)  | 6-16-97                  | SeQual Technologies, Inc. |
| 33 | EP Patent 0990107 – UK                                | Ambulatory Oxygen Concentrator<br>Liquefaction System (AKA<br>Methods and Apparatus to<br>Generate Liquid Ambulatory<br>Oxygen from an Oxygen<br>Concentrator)-<br><br>(UK)<br><br>(109834-000032)      | 6-16-97                  | SeQual Technologies, Inc. |

|    | <b>Application,<br/>Publication or Patent<br/>No.</b> | <b>Title<br/><br/>(Country)<br/><br/>(Atty. Docket No.)</b>   | <b>Priority<br/>Date</b> | <b>Applicant</b>          |
|----|---|---|--------------------------|---------------------------|
| 34 | Japan 504454/<br><br>1999                             | Methods and Apparatus to<br>Generate Liquid Ambulatory<br>Oxygen from an Oxygen<br>Concentrator<br><br>(Japan)<br><br>(109834-000026) | 6-16-97                  | SeQual Technologies, Inc. |
| 35 | WO 02/11861<br>(PCT/US00/21400)                       | Portable Oxygen Concentration<br>System and Method of Using the<br>Same<br><br>(PCT)<br><br>(109834.000007)                           | 8-3-00                   | SeQual Technologies, Inc. |
| 36 | Australia 65216/00                                    | Portable Oxygen Concentration<br>System and Method of Using the<br>Same<br><br>(Australia)<br><br>(109834-000036)                     | 8-3-00                   | SeQual Technologies, Inc. |
| 37 | Canada 2,417,339                                      | Portable Oxygen Concentration<br>System and Method of Using the<br>Same<br><br>(Canada)<br><br>(109834-000038)                        | 8-3-00                   | SeQual Technologies, Inc. |
| 38 | Europe 00952541.1                                     | Portable Oxygen Concentration<br>System and Method of Using the<br>Same<br><br>(Europe)<br><br>(109834-000037)                        | 8-3-00                   | SeQual Technologies, Inc. |

|    | <b>Application,<br/>Publication or Patent<br/>No.</b> | <b>Title<br/>(Country)<br/>(Atty. Docket No.)</b>  | <b>Priority<br/>Date</b> | <b>Applicant</b>          |
|----|---|--|--------------------------|---------------------------|
| 39 | WO 03/015899<br>(PCT/US02/23181)                      | Vacuum-Pressure Swing<br>Adsorption Fractionator and<br>Method of Using the Same<br><br>(PCT)<br><br>(109834.000040) | 8-16-01                  | SeQual Technologies, Inc. |
| 40 | PCT/US03/13496  | Portable Oxygen Concentration<br>System and Method of Using the<br>Same<br><br>(PCT)<br><br>(109834-000041)          | 4-29-02                  | SeQual Technologies, Inc. |