

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Caitin, Inc.	04/18/2012
RECEIVING PARTY DATA	
Name:	Pax Scientific, Inc.
Street Address:	P.O. Box 150840
City:	San Rafael
State/Country:	CALIFORNIA
Postal Code:	94915-0840
PROPERTY NUMBERS Total: 4	
Property Type	Number
Application Number:	13185490
Application Number:	61061630
Application Number:	13039121
PCT Number:	US2011027845
CORRESPONDENCE DATA	
Fax Number:	(650)391-1395
Phone:	6503911380
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<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
Correspondent Name:	Rochelle Rotea
Address Line 1:	2440 W. El Camino Real
Address Line 2:	6th Floor
Address Line 4:	Mountain View, CALIFORNIA 94040
NAME OF SUBMITTER:	Adriana M. Garcia
Total Attachments: 5	

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## ASSIGNMENT

WHEREAS **Caitin, Inc.** (hereinafter referred to as the Assignor) owns certain patents and patent applications, which are identified in Schedule A;

WHEREAS said Assignor is subject to certain pre-existing contractual obligations to enter into an assignment of those certain patents and patent applications, which are identified in Schedule A, upon the occurrence of certain conditions;

WHEREAS those certain conditions have, in fact, occurred thereby giving rise to the need for Assignor to enter into an assignment of those certain patents and patent applications, which are identified in Schedule A, in order to comply with the aforementioned pre-existing contractual obligations;

WHEREAS **Pax Scientific, Inc.**, a corporation having an address of **P.O. Box 150840 San Rafael, CA 94915-0840** (hereinafter referred to as the Assignee), is the intended beneficiary and recipient of the aforementioned assignment of those certain patents and patent applications, which are identified in Schedule A, and is otherwise desirous of obtaining the Assignor's right, title and interest in and to those certain patents and patent applications, which are identified in Schedule A, and in and to any Letters Patent that might result from any applications for Letters Patent in Schedule A, whether in the United States or abroad, to be obtained therefore and thereon, and to any and all improvements which are disclosed in said applications for Letters Patent;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged the Assignor, in accordance with the previously agreed upon contractual and legal obligations, has assigned, transferred, and set over, and does hereby assign, transfer, and set over unto said Assignee the Assignor's right, title, and interest in, to, and under the applications for Letters Patent and Letters Patent identified in Schedule A, and any subsequent Letters Patents that may be granted with respect to the patent applications identified in Schedule A, both in the United States of America and in any foreign country, and any division, continuation, and continuation-in-part of said applications or Letters Patents, any reissue or extension of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, including any and all rights of priority, the right, title, and interest to be held and enjoyed by said Assignee for its own use and behoove to the full end of the term for which Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by the Assignor, had this assignment not been made.

IN WITNESS WHEREOF said Assignor has executed and delivered this instrument effective April 18, 2012.

  
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**John Kristen**  
**Principal, Diablo Management Group**  
**On behalf of and as an Authorized Person for Caitin, Inc.**

**SCHEDULE A**

Patent Registrations and Applications

(Dates are in DD-MM-YYYY format)

United States Patent Applications

Patent Application Number	Title	First named inventor	Filing date
60/540,513	A VORTICAL FLOW ROTOR	Jayden David Harman	01-30-2004
60/608,597	HOUSING FOR A CENTRIFUGAL FAN OR PUMP	Jayden David Harman	09-11-2004
60/624,669	HOUSING FOR A CENTRIFUGAL FAN, PUMP, OR BLOWER	Jayden David Harman	11-02-2004
60/827,677	AXIAL FLOW FAN	Jayden David Harman	09-29-2006
60/950,610	SURFACE PROFILE FOR A QUIET ROTOR OR STATOR	Jayden David Harman	07-19-2007
61/163,438	VAPOR COMPRESSION SYSTEM	Jayden David Harman	03-25-2009
61/165,911	VORTEX TUBE	Serguei Charamko	04-02-2009
61/191,564	INSERT FOR A VORTEX TUBE	Balaji Maniam	07-25-2009
61/228,557	SUPERSONIC COOLING SYSTEM	Thomas P. Gielda	07-25-2009
61/228,563	INSERT FOR A VORTEX TUBE	Serguei Charamko	07-25-2009
61/228,567	NUCLEATION RING FOR A CENTRAL INSERT	Kristian Debus	07-25-2009
61/228,572	NOZZLE	Thomas P. Gielda	07-25-2009
61/228,954	REGENERATOR	Thomas P. Gielda	07-25-2009
61/240,153	HEAT TRANSFER METHOD AND SYSTEM	Jayden David Harman	09-04-2009
61/367,830	NOZZLE	Thomas P. Gielda	07-26-2010
61/384,649	PERSONAL COOLING SYSTEM	Thomas P. Gielda	09-20-2010
61/384,653	BATTERY COOLING	Thomas P. Gielda	09-20-2010
10/882,412	FLUID FLOW CONTROLLER	Jayden David Harman	06-30-2004

10/884,032	VORTEX RING GENERATOR	Jayden David Harman	07-02-2004
10/884,713	HEAT EXCHANGER	Jayden David Harman	07-01-2004
11/323,137	FLUID FLOW CONTROL DEVICE	Jayden David Harman	12-29-2005
11/484,123	HEAT EXCHANGER	Jayden David Harman	07-10-2006
11/495,183	VORTICAL FLOW ROTOR	Jayden David Harman	07-28-2006
11/496,013	HOUSING FOR A CENTRIFUGAL FAN, PUMP, OR TURBINE	Jayden David Harman	07-28-2006
11/774,594	HEAT EXCHANGER	Jayden David Harman	07-07-2007
11/906,060	AXIAL FLOW FAN	Jayden David Harman	09-28-2007
11/924,144	SOUND ATTENUATOR	Jayden David Harman	10-25-2007
11/980,168	VORTEX RING GENERATOR	Jayden David Harman	10-29-2007
12/221,711	HOUSING FOR A CENTRIFUGAL FAN, PUMP, OR TURBINE	Jayden David Harman	08-05-2008
12/484,998	SWIRL INDUCER	Jayden David Harman	06-15-2009
12/732,171	SUPERSONIC COOLING SYSTEM	Jayden David Harman	03-25-2010
12/753,824	VORTEX TUBE	Serguei Charamko	04-02-2010
12/843,834	NUCLEATION RING FOR A CENTRAL INSERT	Kristian Debus	07-26-2010
12/848,943	REDUCING DRAG ON A MOBILE BODY	Jayden David Harman	08-02-2010
12/862,637	FLUID FLOW CONTROL DEVICE	Jayden David Harman	08-24-2010
12/876,985	SYSTEM AND METHOD FOR HEAT TRANSFER	Jayden David Harman	09-07-2010
12/880,940	PORTABLE COOLING UNIT	Thomas P. Gielda	09-13-2010
12/902,056	BATTERY COOLING	Thomas P. Gielda	10-11-2010
12/902,060	PERSONAL COOLING UNIT	Thomas P. Gielda	10-11-2010
12/960,979	THERMODYNAMIC CYCLE FOR COOLING A WORKING FLUID	Jayden David Harman	12-06-2010
12/961,015	PRESSURE SHOCK-INDUCED COOLING	Jayden David	12-06-2010

	CYCLE	Harman	
12/961,342	SUPERSONIC COOLING SYSTEM	Jayden David Harman	12-06-2010
12/961,366	HEAT EXCHANGE AND COOLING SYSTEMS	Jayden David Harman	12-06-2010
12/961,386	HEATING AND COOLING OF WORKING FLUIDS	Jayden David Harman	12-06-2010

United States Patents

Patent Number	Title	First named inventor	Date of issue
7096934	HEAT EXCHANGER	Jayden David Harman	08-29-2006
7287580	HEAT EXCHANGER	Jayden David Harman	10-30-2007
7416385	HOUSING FOR A CENTRIFUGAL FAN, PUMP, OR TURBINE	Jayden David Harman	08-26-2008
7488151	VORTICAL FLOW ROTOR	Jayden David Harman	02-10-2009
7644804	SOUND ATTENUATOR	Jayden David Harman	01-12-2010
7673834	VORTEX RING GENERATOR	Jayden David Harman	03-09-2010
7766279	VORTEX RING GENERATOR	Jayden David Harman	08-03-2010
7802583	FLUID FLOW CONTROL DEVICE	Jayden David Harman	09-28-2010
7814967	HEAT EXCHANGER	Jayden David Harman	10-19-2010
7832984	HOUSING FOR A CENTRIFUGAL FAN, PUMP, OR TURBINE	Jayden David Harman	11-16-2010

Patent Cooperation Treaty patent applications

Patent Application No.	Title	First named inventor	International filing date
PCT/AU03/00003	VORTEX RING GENERATOR	Jayden David Harman	01-03-2003
PCT/AU03/00004	A FLUID FLOW CONTROLLER	Jayden David Harman	01-03-2003
PCT/AU03/00006	HEAT EXCHANGER	Jayden David Harman	01-03-2003
PCT/AU04/00862	FLUID FLOW CONTROL DEVICE	Jayden David Harman	06-29-2004
PCT/AU05/00116	HOUSING FOR A CENTRIFUGAL FAN, PUMP OR TURBINE	Jayden David Harman	01-31-2005
PCT/AU05/00117	A VORTICAL FLOW ROTOR	Jayden David Harman	01-31-2005
PCT/US07/20916	AXIAL FLOW FAN	Jayden David Harman	09-28-2007
PCT/US10/28761	SUPERSONIC COOLING SYSTEM	Tom Gielda	03-25-2010

Foreign Patent Applications

Patent Application No.	Title	First named inventor	International filing date
PR 9827 (AU)	VORTEX RING GENERATOR TO REDUCE DRAG ON A FUSELAGE	Jayden David Harman	01-03-2002
PS 1352 (AU)	VORTEX RING GENERATOR TO REDUCE DRAG ON A FUSELAGE	Jayden David Harman	03-26-2002
2003903386 (AU)	FLUID FLOW CONTROL DEVICE	Jayden David Harman	07-02-2003
PR 9823 (AU)	A FLUID FLOW CONTROLLER	Jayden David Harman	01-03-2002
PR 9825 (AU)	HEAT EXCHANGER	Jayden David Harman	01-03-2002