

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7783989

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	GINER, INC.	07/27/2018
RECEIVING PARTY DATA		
Name:	GINER LIFE SCIENCES, INC.	
Street Address:	89 RUMFORD AVENUE	
City:	NEWTON	
State/Country:	MASSACHUSETTS	
Postal Code:	02466	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	16266687
CORRESPONDENCE DATA		
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<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>		
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ATTORNEY DOCKET NUMBER:	83493B	
NAME OF SUBMITTER:	EDWARD M. KRIEGSMAN	
SIGNATURE:	/edward m. kriegsman/	
DATE SIGNED:	02/07/2023	
Total Attachments: 6		
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PATENT AND DESIGN HISTORY FILE ASSIGNMENT

THIS PATENT AND DESIGN HISTORY FILE ASSIGNMENT (this "Assignment") is made and entered into as of July 27, 2018 ("Effective Date") by and between Giner, Inc., a Massachusetts corporation, with its principal office at 89 Rumford Avenue, Newton MA 02466 ("Assignor"), and Giner Life Sciences, Inc., a Delaware corporation, with its principal office at 89 Rumford Avenue, Newton MA 02466 ("Assignee").

WHEREAS, Assignor owns a majority of the issued and outstanding shares of Assignee's capital stock; and

WHEREAS, Assignor is the sole and exclusive owner of the entire right, title and interest in and to the patents and patent applications listed on Schedules A and B (the "Patents"); and

WHEREAS, Assignor is the sole and exclusive owner of the entire right, title and interest in and to the design history files listed on Schedule C (the "DHFs"); and

WHEREAS, Assignor wishes to assign to Assignee as an additional contribution to capital, and Assignee wishes to obtain from Assignor, the entire right, title and interest in and to the (i) DHFs, and (ii) Patents and all Patent Rights with respect thereto (including all Patent Rights which may issue from or which claim priority to the Patent and all Patent Rights from which the Patents may claim priority) (collectively, the "Assigned Patents").

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor hereby sells, assigns, transfers and sets over to Assignee (free and clear of all liens, mortgages, security interests, encumbrances, imperfections of title, and restrictions on transfer) the entire right, title and interest in and to the (x) DHFs, and (y) Assigned Patents, for the United States and for all foreign countries, including, without limitation, Patent Rights with respect thereto and the subject matter of all claims which may be obtained therefrom, together with all rights in any jurisdiction throughout the world in and to the following: all (i) claims, causes of action and enforcement rights of any kind, whether currently pending, filed or otherwise, and whether known or unknown, under or arising from the Assigned Patents, including all rights to pursue and collect damages, costs, injunctive relief and other remedies for past, current, or future infringement, misappropriation, or conflict with the Assigned Patents, and (ii) royalties, income and other payments due under or arising from the Assigned Patents. Assignor hereby requests the Commissioner of Patents and Trademarks, and the corresponding entities or agencies in any applicable foreign countries, to record Assignee as the assignee and owner of the Assigned Patents. "Patent Rights" means patents, patent applications (including provisional and non provisional patent applications), invention disclosures, inventor's certificates, all parents, continuations, divisions, continuations-in-part, revisions, extensions, substitutions, reexaminations, reissuances, foreign counterparts, and international counterparts of any of the foregoing, and all inventions, designs and discoveries described or disclosed therein, and all other corresponding rights that are or may be secured under the laws of the United States or any foreign country.

IN WITNESS WHEREOF, Assignor and Assignee have caused this Assignment to be executed by their duly authorized representatives as of the Effective Date.

ASSIGNOR
GINER, INC.

By: Cortney Mittelsteadt
Name: Cortney Mittelsteadt
Title: Chief Executive Officer

ASSIGNEE
GINER LIFE SCIENCES, INC.

By: Andrew R. Belt
Name: Andrew R. Belt
Title: President

SCHEDULE A

U.S. AND FOREIGN PATENTS

Organ Preservation Related:

1. Issued U.S. Pat 9,357,764 June 7, 2016
Filed December 30, 2011 as 13/341,565 as a CIP of 12/803083 and claiming priority of 61/268,973
; Published Jul 12, 2012 as 2012/0178150 A1
SYSTEM FOR FLUID PERFUSION OF BIOLOGICAL MATTER COMPRISING TISSUE
Inventors: Tempelman, Linda A.; Stone, Simon, G.
Assignee: Giner, Inc.

2. Issued UK Patent GB2498096 Granted 16 January 2018 and Published 14 February 2018
Filed 24 December 2012 as application GB1223383.9
SYSTEMS FOR FLUID PERFUSION OF TRANSPLANTABLE ORGANS
Inventors: Tempelman, Linda A.; Stone, Simon, G.
Assignee: Giner, Inc.

3. Issued Japanese Patent No. 5650191, issued November 21, 2014
Filed December 26, 2012, as Japanese Patent Application No. 2012-284992
SYSTEM FOR FLUID PERFUSION OF BIOLOGICAL MATTER COMPRISING TISSUE
Inventors: Tempelman, Linda A.; Stone, Simon, G.
Assignee: Giner, Inc.

SCHEDULE B

U.S. AND FOREIGN PATENT APPLICATIONS

Oxygenated Cell Implant related:

1. U.S. Patent Application No. 14/495,644 AND PCT/US2014/057295
With National Phase Filings in: U.S., China, Europe, Australia, Japan, Brazil, Singapore,
Canada, Saudi Arabia, New Zealand, Israel and Republic of Korea
Filed September 23, 2014; Published April 23, 2015 as 2015/0112247 A1
SYSTEM FOR GAS TREATMENT OF A CELL IMPLANT
Inventors: Tempelman, Stone, Papas
Assignee: Giner, Inc.
U.S. Provisional Patent Application No. 61/881,654 filed September 24, 2013
2. U.S. Patent Application No. 15/814,298 AND PCT/US17/61859
Filed November 15, 2017; Published May 17, 2018 as 2018/0133383 A1
PERCUTANEOUS GAS DIFFUSION DEVICE
SUITABLE FOR USE WITH A SUBCUTANEOUS IMPLANT
Inventors: Ferrante and Stone
Assignee: Giner, Inc.
U.S. Provisional Patent Application No. 62/422,397 filed November 15, 2016
3. U.S. Patent Application No. 15/814,124 AND PCT/US17/61859
Filed November 15, 2017; Published May 17, 2018 as 2018/0135948 A1
SELF-REGULATING ELECTROLYTIC GAS GENERATOR AND
IMPLANT SYSTEM COMPRISING THE SAME
Inventors: Stone, Tempelman, Schwenk
Assignee: Giner, Inc.
U.S. Provisional Patent Application No. 62/422,420 filed November 15, 2016
4. U.S. Patent Application No. 15/971,658 AND PCT Application No. PCT/US18/31223
Filed May 4, 2018
ROBUST, IMPLANTABLE SYSTEM FOR DELIVERY OF GASES TO TISSUES, CELLS
AND CELL CAPSULES
Inventors: Ferrante, Stone
Assignee: Giner, Inc.
U.S. Provisional Patent Application No. 62/501,488 filed May 4, 2017
5. Giner, Inc. Disclosure I-18-004 April 4, 2018
COMBINED ELECTRICAL LEAD AND GAS PORT TERMINALS
Inventors: Schwenk, Stone
Assignee: Giner, Inc.

U.S. Provisional Patent Application No. 62/671,298 filed May 17, 2018

6. Giner, Inc. Disclosure I-18-002 January 28, 2018
METHODS FOR CONTROLLING OXYGEN DELIVERY TO IMPLANTED CELLS

Inventors: Stone

Assignee: Giner, Inc.

U.S. Provisional Patent Application No. 62/672,784 filed May 14, 2018

Organ Preservation related:

1. U.S. Patent Application No. 12/803083

Filed June 18, 2010; Published December 30, 2010 as 2010/0330547 A1

PERFUSING AN ORGAN WITH AN IN SITU GENERATED GAS

Inventors: Tempelman, Linda A.; Papas, Klearchos K.; Stone, Simon G.; Scott, III, William Earl;
Suszynski, Thomas M.; Matsumoto, Shuichiro; Fabrega, Joana Ferrer; Rizzari, Michael D.

Assignee: Giner, Inc. and University of Minnesota

U.S. Provisional Patent Application No. 61/268,973 filed Jun 18, 2009

1. German Patent Appln. No. 10 2012 112 709.3, pending

Filed December 20, 2012, published July 18, 2013 as DE 10 2012 112 709 A1

SYSTEM FOR FLUID PERFUSION OF BIOLOGICAL MATTER COMPRISING TISSUE

Inventors: Tempelman, Linda A.; Stone, Simon, G.

Assignee: Giner, Inc.

SCHEDULE C

DESIGN HISTORY FILES

Oxygenated Cell Implant related:

Design History File(s) and other records prepared and held for Giner Inc by Proven Process
Medical Devices (Mansfield MA, USA)

Giner, Inc. project 2089, NIH Project R44DK100999, PPMD Project 0632

"High Cell Density Bioartificial Pancreas Enabled by Implantable Oxygen Generator"

Organ Preservation related:

Design History File(s) and other records prepared and held for Giner Inc by Proven Process
Medical Devices (Mansfield MA, USA)

Giner, Inc. project 2063, NIH Project R44DK070400, PPMD Project 0612

"Portable Gas Perfusion System for Pancreas Preservation"