

PATENT ASSIGNMENT

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NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Ezekiel Kruglick	09/07/2012
RECEIVING PARTY DATA	
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PROPERTY NUMBERS Total: 1	
Property Type	Number
PCT Number:	US1255872
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OP \$40.00 US1255872

ASSIGNMENT OF PATENT RIGHTS

For valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Ezekiel Kruglick of 13842 Deergrass Ct., Poway, CA 92064, U.S. ("Assignor"), effective as of July 15, 2011, hereby sells, assigns, transfers, and conveys unto Ardent Research Corporation, a corporation of the state of California, having a principal place of business at 13842 Deergrass Ct., Poway, CA 92064-2276 U.S. ("Assignee"), all right, title, and interest that exist today and may exist in the future in and to any and all of the following (collectively, the "Rights"):

1. the inventions disclosed in the solution report/invention disclosure titled "**Phase change memory thermal averaging using ECE materials**" and all inventions claimed and/or described in the Application (collectively, the "**Invention**");
2. the patent applications listed in the table below (the "**Application**");

Patent Application No.	Country	Filing Date	Title
PCT/US12/55872	PCT	September 18, 2012	PHASE CHANGE MEMORY THERMAL MANAGEMENT WITH ELECTROCALORIC EFFECT MATERIALS

3. all rights with respect to the Invention, including all U.S. patents or other governmental grants or issuances that may be granted with respect to the Invention or from any direct or indirect divisionals, continuations, continuations-in-part, or other patent applications claiming priority rights from the Application ("**Potential Patents**");
4. all reissues, reexaminations, extensions, or registrations of the Potential Patents;
5. all non-United States patents, patent applications, and counterparts relating to any or all of the Invention, the Application, and the Potential Patents, including, without limitation, certificates of invention, utility models, industrial design protection, design patent protection, and other governmental grants or issuances ("**Foreign Rights**"), and including the right to file foreign applications directly in the name of Assignee, its successors and assigns;
6. all rights to claim priority rights deriving from the Application;
7. all causes of action and remedies related to any or all of the Application, the Invention, the Potential Patents, and the Foreign Rights (including, without limitation, the right to sue for past, present, or future infringement, misappropriation or violation of rights related to any of the foregoing and the right to collect royalties and other payments under or on account of any of the foregoing); and
8. any and all other rights and interests arising out of, in connection with, or in relation to the Application, the Invention, Potential Patents, and the Foreign Rights.

Assignor will not sign any document or do any act conflicting with this Assignment, and, without further compensation, will sign all documents and do such additional acts as Assignee, its successors, legal representatives, and assigns deem necessary or desirable to perfect enjoyment of the Rights, conduct proceedings regarding the Rights (including any litigation or interference proceedings), or perfect or defend title to the Rights. Assignor requests the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models, or other governmental grants or issuances that may be granted upon any of the Rights in the name of the Assignee, as the assignee to the entire interest therein.

Assignor hereby authorizes and requests authorized representative to insert on this Assignment the filing date and Patent Application Numbers in the table above when known.

The terms and conditions of this Assignment will inure to the benefit of Assignee, its successors, legal representatives, and assigns and will be binding upon Assignor, their successors, legal representatives and assigns.

[Signature Page(s) to Follow]

