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U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark OfficeJ1000 U.S. PTO
10/081470

02/21/02

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

1. Name of conveying party(ies):

JON ZUO

2/21/02

2. Name and address of receiving party(ies)

Name: Thermal Corp.

Internal Address: P.O. Box 477

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

3. Nature of conveyance:



Assignment



Merger



Security Agreement



Change of Name



Other

Street Address:

City: Georgetown State: DE Zip: 19947

Execution Date:

02/11/2002

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s): 1

If this document is being filed together with a new application, the execution date of the application is: 2/22/02

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

10/081470

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

Name: Samuel W. Apicelli

Internal Address:

DUANE MORRIS LLP

P.O. BOX 1003

Street Address: 305 North Front Street, 5th Floor

City: Harrisburg State: PA Zip: 17108-1003

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00



Enclosed



Authorized to be charged to deposit account

8. Deposit account number:

04-1679

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

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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.

SAMUEL W. APICELLI REG. # 36,427

Name of Person Signing

Samuel W. Apicelli

Signature

2/22/02

Date

Total number of pages including cover sheet, attachments, and documents: 3

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

Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

03/04/2002 WABDEL1 00000046 10081470

03 FEB 2002

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PATENT
REEL: 012625 FRAME: 0925

ASSIGNMENT

WHEREAS, the undersigned, Jon Zuo, residing at 1030 Lehn Drive, Lancaster, PA 17601, a citizen of the United States of America, (hereinafter referred to as "ASSIGNOR") is the inventor of certain inventions or improvements for ELECTRONICS PACKAGE WITH SPECIFIC AREAS HAVING LOW COEFFICIENT OF THERMAL EXPANSION, which he has on the date indicated below next to his signature executed an application for Letters Patent of the United States;

WHEREAS, Thermal Corp., a Delaware corporation, having a mailing address of P.O. Box 477, Georgetown, DE 19947 (hereinafter referred to as "ASSIGNEE") is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to said application for patent, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States or in any other country;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby freely acknowledged, and intending to be legally bound, the said ASSIGNOR, has sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, to said ASSIGNEE, the entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions, and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and its possessions and territories and in all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, the same to be held and enjoyed by said ASSIGNEE, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment, sale and transfer not been made.

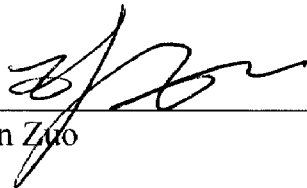
AND the undersigned ASSIGNOR hereby covenants that he has full right to convey the entire interest herein assigned, and that he has not executed and will not execute any agreement in conflict herewith, and further covenants and agrees that he will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent in said ASSIGNEE, its successors, assigns, nominees, or legal representatives, and agrees to communicate to said ASSIGNEE or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, and reissue applications, to make all rightful oaths, and generally to do everything possible to aid said ASSIGNEE, its successors, assigns, nominees and legal representatives to obtain and enforce for its own benefit proper patent protection for said inventions or improvements in the United States and its possessions and territories and in all other countries;

AND ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States to issue to said ASSIGNEE, the entire right, title and interest, in

and to any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

IN WITNESS WHEREOF, ASSIGNOR hereunto sets his hand and seal, intending to be legally bound.

Date: 2/11/02



Jon Zuo

HBG92316.1

Docket No.: H1799-00026

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RECORDED: 02/21/2002

PATENT
REEL: 012625 FRAME: 0927