

FORM PTO-1595

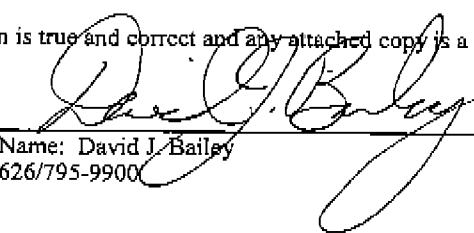
Docket No. 47490/DJB/S968

# **RECORDATION FORM COVER SHEET PATENTS ONLY**

Mail Stop Assignment - Recordation Services  
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 Pasadena, CA 91109-7068

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

<b>1. Name of conveying party(ies):</b> <b>Bharat M. Mangrolia</b>  Additional name(s) of conveying party(ies) attached: NO		<b>2. Name and address of receiving party(ies):</b> Name: <b>ThermalWorks, Inc.</b>  Street Address: 9042 Garfield Avenue, Suite 212 Huntington Beach, California 92646			
<b>3. Name of conveyance:</b>  <input type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input checked="" type="checkbox"/> Other: Confirmation of Assignment		Execution Date: August 11, 2004  Additional name(s) & address(es) attached? NO			
<b>4. Application number(s) or patent number(s):</b>  If this document is being filed together with a new application, the execution date of the application is:  <table border="0"> <tr> <td><b>A. Patent Application No.(s)</b> 10/020,506</td> <td><b>B. Patent No.(s)</b></td> </tr> </table>				<b>A. Patent Application No.(s)</b> 10/020,506	<b>B. Patent No.(s)</b>
<b>A. Patent Application No.(s)</b> 10/020,506	<b>B. Patent No.(s)</b>				
Additional numbers attached? NO					
<b>5. Please return the recorded document and address all correspondence to:</b>  <b>CHRISTIE, PARKER &amp; HALE, LLP</b> P.O. Box 7068 Pasadena, CA 91109-7068 Attention: David J. Bailey		<b>6. Total number of applications and patents involved</b> <span style="border: 1px solid black; padding: 0 10px;">1</span>			
<b>10. <input type="checkbox"/> Explanatory letter is enclosed.</b>		<b>7. <input checked="" type="checkbox"/> Total fee to be charged to Deposit Account No. 03-1728 (37 CFR 3.41): \$ 40.00</b>  <b>8. <input checked="" type="checkbox"/> Any deficiency or overpayment of fees should be charged or credited to Deposit Account No. 03-1728, except for payment of issue fees required under 37 CFR § 1.18. Please show our docket number with any credit or charge to our Deposit Account.</b>			
<b>9. Statement and signature.</b> 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.  Date: August 13, 2004  <div style="text-align: right;">           By             Name: David J. Bailey            626/795-9900         </div>					
Total number of pages including cover sheet, attachments, and document: <span style="border: 1px solid black; padding: 0 10px;">6</span>					

CH \$40.00 03-1728 10020506

DJB/syb

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**PATENT**  
**REEL: 015062 FRAME: 0127**

**Docket No. 47490/DJB/S968**

## **CONFIRMATION OF ASSIGNMENT**

### **1. Definitions**

The **Assignor** means **BHARAT M. MANGROLIA**, residing at 7562 Ellis Avenue, #G9, Huntington Beach, California 92648.

The **Assignee** means **THERMALWORKS, INC.**, a California corporation, having a place of business at 9042 Garfield Avenue, Suite 212, Huntington Beach, California 92646, together with any successors in interest.

**United States Provisional Application No. 60/254,997** means the provisional application entitled **LIGHT WEIGHT MULTIPLE LAYER PRINTED WIRING BOARD** filed **December 12, 2000**, Application No. 60/254,997.

**U.S. Patent Application No. 10/020,506** means the application for United States Letters Patent entitled **LIGHTWEIGHT CIRCUIT BOARD WITH CONDUCTIVE CONSTRAINING CORES**, filed **December 11, 2001**, Application No. 10/020,506, together with claim to the priority of **United States Provisional Application No. 60/254,997**, filed **December 12, 2000**.

A related application to **U.S. Patent Application No. 10/020,506** means any:

- divisional application of **U.S. Patent Application No. 10/020,506**
- continuation application claiming priority to **U.S. Patent Application No. 10/020,506**;
- reissue of **U.S. Patent Application No. 10/020,506**;
- reexamination of **U.S. Patent Application No. 10/020,506**;
- any domestic or foreign application for letters patent filed claiming priority from **U.S. Patent Application No. 10/020,506**; and
- any domestic or foreign letters patent that claim priority from **U.S. Patent Application No. 10/020,506**.

### **2. Declarations acknowledging assignment**

The **Assignor** is the assignee of record of **U.S. Patent Application No. 10/020,506** and **U.S. Provisional Application No. 60/254,997**.

The **Assignor** and the **Assignee** confirm that the attached document is a true copy of an assignment executed on January 14, 2002.

**ASSIGNMENT****Docket No. 47490/DJB/S968**

Both the **Assignor** and **Assignee** confirm the assignment to the **Assignee** that occurred on January 14, 2002 to the entire right, title and interest in and to:

- **U.S. Patent Application No. 10/020,506;**
- **U.S. Provisional Application No. 60/254,997;**
- **related applications to U.S. Patent Application No. 10/020,506**
- **the inventions disclosed in the above applications and related applications;**
- **all priority rights arising out of U.S. Patent Application No. 10/020,506 under International Agreements, Treaties and Conventions for the protection of intellectual property in its various forms; and**
- **the right to sue for infringement of any right arising from the filing of U.S. Patent Application No. 10/020,506 or any related application to U.S. Patent Application No. 10/020,506 that occurred prior to the assignment of January 14, 2002.**

**3. Obligations assumed by Assignor**

The **Assignee** and **Assignor** confirm that as part of the assignment that occurred on January 14, 2002, the **Assignor** undertook to:

- **communicate to the Assignee any facts known to it respecting U.S. Patent Application No. 10/020,506 or a related application to U.S. Patent Application No. 10/020,506;**
- **testify in any legal proceeding respecting U.S. Patent Application No. 10/020,506, a related application to U.S. Patent Application No. 10/020,506, letters patent issuing from these applications or any other right assigned by the assignment of January 14, 2002;**
- **sign all lawful papers, execute all divisional, continuation, substitute and reissue applications;**
- **make all rightful oaths; and**
- **generally do everything possible to aid the Assignee to obtain and enforce proper patent protection for the inventions disclosed in U.S. Patent Application No. 10/020,506 and related applications to U.S. Patent Application No. 10/020,506.**

ASSIGNMENT  
Docket No. 47490/DJB/S968

4. Authorization to issue patents in name of Assignee

The Assignor authorizes and requests the United States Commissioner of Patents and Trademarks, and any officials of foreign countries whose duty it is to issue patents on applications, to issue any patent arising from the assigned rights and/or applications to the Assignee.

IN TESTIMONY WHEREOF, I hereunto set my hand this 11<sup>th</sup> day of August, 2004.

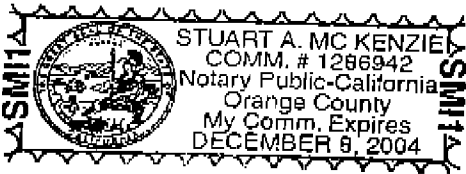
BHARAT M. MANGROLIA

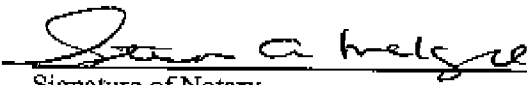


STATE OF California )  
COUNTY OF Orange )

On Aug 11, 2004, before me Stuart A. McKenzie, Notary Public, personally appeared Bharat M. Mangrolia personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.



  
Signature of Notary

ASSIGNMENT  
Docket No. 47490/DJB/S968

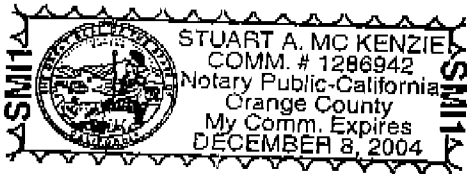
IN TESTIMONY WHEREOF, I hereunto set my hand this 11 day of August, 2004.

ThermalWorks, Inc.  
By: Don Roy  
Name: Don Roy  
Title: President

STATE OF California )  
COUNTY OF Orange )

On Aug 11, 2004, before me STUART A. MCKENZIE, Notary Public, personally appeared Don Roy personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.



Stuart A. McKenzie  
Signature of Notary

DJB/syb  
DJB IRV1068491.1-\*08/9/04 4:49 PM