

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Francisco Machuca</td> <td>05/07/2013</td> </tr> <tr> <td>Indranil De</td> <td>06/12/2013</td> </tr> </tbody> </table>		Name	Execution Date	Francisco Machuca	05/07/2013	Indranil De	06/12/2013				
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Tivra Corporation</td> </tr> <tr> <td>Street Address:</td> <td>3343 B Vincent Road</td> </tr> <tr> <td>City:</td> <td>Pleasant Hill</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>94602</td> </tr> </table>		Name:	Tivra Corporation	Street Address:	3343 B Vincent Road	City:	Pleasant Hill	State/Country:	CALIFORNIA	Postal Code:	94602
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
Fax Number: 6508382001 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 6508382000 Email: patent-mail@alston.com Correspondent Name: Alston & Bird LLP Address Line 1: 100 South Tryon Street Address Line 2: Bank of America Plaza, Suite 4000 Address Line 4: Charlotte, NORTH CAROLINA 28280-4000											
ATTORNEY DOCKET NUMBER:	060649-428753										
NAME OF SUBMITTER:	Suzanne Shadley										
Signature:	/Suzanne Shadley/										
Date:	06/13/2013										
Total Attachments: 3 source=428753_Assignment#page1.tif source=428753_Assignment#page2.tif source=428753_Assignment#page3.tif											

CH \$40.00 13794327

## ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

Tivra Corporation  
3343 B Vincent Road  
Pleasant Hill, CA 94602

its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries in and to the invention in **"MULTILAYER SUBSTRATE STRUCTURE AND METHOD OF MANUFACTURING THE SAME"**

as set forth in this United States Patent Application

- ☐ executed concurrently herewith
- ☐ executed on \_\_\_\_\_
- ☒ Application No. 13/794,327; filed March 11, 2013
- ☒ Application claims priority from Application Nos. 61/662,918 and 61/659,944, filed June 22, 2012 and June 14, 2012, respectively, all applications listed above being hereinafter referred to as the "application(s)";

(We hereby authorize and request the Assignee and its attorney (Alston & Bird LLP) to insert above the application number and filing date of said application when known.)

said application for United States Letters Patent, including all divisional, renewal, substitute, continuation, nonprovisionals, continuation-in-parts, and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues, reexaminations, and extensions of Letters Patent granted for said inventions or upon said applications and every priority right that is or may be predicated upon or arise from said inventions, said applications, and said Letters Patent; said Assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right theretofore given, and that the undersigned will do all acts reasonably serving to ensure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions,

specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in form and substance which may be requested by said Assignee, to furnish said Assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may embody said inventions, and to testify in any proceedings relating to said inventions, patent applications, and/or Letters Patent.

The undersigned hereby grant(s) an authorized representative of Assignee the power to insert in this Assignment any further identification that may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

This Assignment is deemed to be effective at least as early as June 14, 2012 (the earliest priority date).

5/7/2013  
Date

Francisco Machuca

Witness

Date: 5/7/13

Witness

Date: 5/7/13

06/12/2013  
Date

Indranil De  
Indranil De

Kalyan Bhatia  
Witness

Date: 06-12-2013

Jai Lax  
Witness

Date: 06-12-2013

Attorney Docket No. 060649-428753