

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Robert Dean Turner	07/29/2009
David Andrew Olivero	07/29/2009
Yue Ma	11/12/2009
Quinn Jay Haddock	07/29/2009
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SEAGATE TECHNOLOGY LLC
<b>Street Address:</b>	920 Disc Drive
<b>City:</b>	Scotts Valley
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95066
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	12617282
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(877)872-0306
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
<b>Phone:</b>	877-654-6652
<b>Email:</b>	holly@mccarthyiplaw.com
<b>Correspondent Name:</b>	McCarthy Law Group
<b>Address Line 1:</b>	5830 Northwest Expressway, #353
<b>Address Line 4:</b>	Oklahoma City, OKLAHOMA 73132
<b>ATTORNEY DOCKET NUMBER:</b>	STL14159
<b>NAME OF SUBMITTER:</b>	Mitchell K. McCarthy

OP \$40.00 12617282

Total Attachments: 2  
 source=2009-11-12-Assignment-STL14159#page1.tif

**501013846**

**PATENT  
 REEL: 023509 FRAME: 0952**



## ASSIGNMENT

Seagate Docket No. : STL14159

WHEREAS, I/we, Robert Dean Turner of 2835 Signal Creek Drive, Thornton, CO, 80141, David Andrew Olivero of 11093 Zephyr St., Westminster, CO, 80021, Yue Ma of 3000 Colorado Ave., E218, Boulder, CO, 80303, and Quinn Jay Haddock of 2120 West 9<sup>th</sup> Ave., Longmont, CO, 80501, am/are the inventor(s) of an invention entitled DUAL DIFFUSION PATH FILTER WITH DIFFERENTIAL FLOW RESISTANCES that is the subject matter of: (check all that apply)

- a provisional application for Letters Patent which is identifiable in the United States Patent and Trademark Office by Application No. \_\_\_\_\_ filed on \_\_\_\_\_;
- an application for Letters Patent which is identifiable in the United States Patent and Trademark Office by Application No. \_\_\_\_\_ filed on \_\_\_\_\_ and/or executed on even date herewith; and
- an international application for Letters Patent filed pursuant to the Patent Cooperation Treaty which is identifiable in the United States Receiving Office by Application No. \_\_\_\_\_ filed on \_\_\_\_\_; and/or executed on even date herewith;

WHEREAS, Seagate Technology LLC, a limited liability company organized and existing under the laws of the State of Delaware and the United States of America, and having offices at 920 Disc Drive, Scotts Valley, California, 95066 USA, ("Assignee") is desirous of acquiring the entire right, title and interest in and to the invention, the applications, and any and all Letters Patent or similar foreign or domestic legal protection:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, I/we transfer to Assignee, its successors and assigns, my/our entire right, title and interest in and to the invention, the above-identified applications, all provisional applications from which any of the above-identified applications claim priority, corresponding domestic and foreign applications, any continuation, division, renewal, or substitute for the applications, all Letters Patent, any reissue, re-examination, or similar legal protection issuing related to the Letters Patent, and all rights and benefits under any applicable treaty or convention; and I/we authorize the Director of the United States Patent and Trademark Office or foreign equivalent to issue the Letters Patent or similar legal protection to the Assignee.

I/We authorize the Assignee, its successors and assigns, to insert in this instrument the filing date(s) and application numbers when ascertained. I/We further authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, in its own name if desired, in any and all foreign countries and appoint Assignee the common representative in the above identified international application and any international application for the invention.

I/We represent to the Assignee, its successors and assigns, that I/we have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. I/We, my/our executors or administrators, will at any time upon request, without additional consideration, but at the expense of the Assignee, its successors and assigns, execute and deliver to Assignee or its legal representatives such additional writings and do such additional acts as the Assignee, its successors and assigns, may deem desirable to perfect its enjoyment of this grant, and render all assistance in making application for and obtaining, maintaining, and enforcing the Letters Patent or similar legal protection on the invention in any and all countries, including without limitation providing testimony in any related interference, litigation or proceeding.

Robert Dean Turner  
Robert Dean Turner (Inventor)

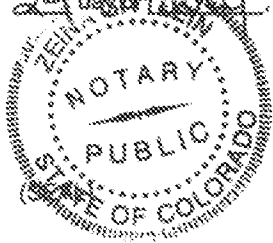
Subscribed and sworn to before me at 389 Disc Dr, Longmont, CO a Notary Public, this 29 day of July, 2009.



Tina O'Connor  
Notary Public

David Andrew Olivero  
David Andrew Olivero (Inventor)

Subscribed and sworn to before me at Highway 101, Pueblo, CO a Notary Public, this 29 day of July, 2009.

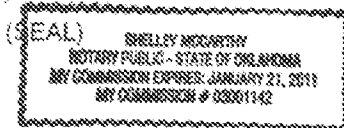


Zaina Gittlein  
Notary Public

Zaina Gittlein, Notary Public  
State of Colorado  
My Commission Expires 12/2/2009

Yue Ma  
Yue Ma (Inventor)

Subscribed and sworn to before me at Norman, Oklahoma a Notary Public, this 12 day of Nov, 2009.



Shelley McCarty  
Notary Public

Quinn Jay Haddock  
Quinn Jay Haddock (Inventor)

Subscribed and sworn to before me at 389 Disc Dr, Longmont, CO a Notary Public, this 29 day of July, 2009.



Tina O'Connor  
Notary Public