

## 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>Jianhui Wu</td> <td>01/24/2012</td> </tr> <tr> <td>Guohua Zhang</td> <td>01/24/2012</td> </tr> <tr> <td>Richard W. Hall</td> <td>02/05/2012</td> </tr> </tbody> </table>		Name	Execution Date	Jianhui Wu	01/24/2012	Guohua Zhang	01/24/2012	Richard W. Hall	02/05/2012		
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>SAINT-GOBAIN ABRASIVES, INC.</td> </tr> <tr> <td>Street Address:</td> <td>One New Bond Street</td> </tr> <tr> <td>City:</td> <td>Worcester</td> </tr> <tr> <td>State/Country:</td> <td>MASSACHUSETTS</td> </tr> <tr> <td>Postal Code:</td> <td>01615-0138</td> </tr> </table>		Name:	SAINT-GOBAIN ABRASIVES, INC.	Street Address:	One New Bond Street	City:	Worcester	State/Country:	MASSACHUSETTS	Postal Code:	01615-0138
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Application Number:	13384331										
CORRESPONDENCE DATA											
Fax Number:	(512)795-7677										
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CH \$40.00 13384331

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ATTORNEY DOCKET NUMBER:	1035-BD6071-US
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NAME OF SUBMITTER:	Jeffrey S. Abel
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Total Attachments: 4 source=BD6071US_ASSN#page1.tif source=BD6071US_ASSN#page2.tif source=BD6071US_ASSN#page3.tif source=BD6071US_ASSN#page4.tif
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**ASSIGNMENT OF INVENTION**

For good and valuable consideration, the receipt of which is hereby acknowledged, I, an Assignor named below,

Jianhui Wu of Ashland MA 01721 USA  
Guohua Zhang of Northborough MA 01532 USA  
Richard W. J. Hall of Southborough MA 01772 USA

hereby sell, assign and transfer to

ASSIGNEE: SAINT-GOBAIN ABRASIVES, INC., a Massachusetts Corporation, having a principal place of business at One New Bond Street, Worcester, MA 01615-0138 USA,

and

SAINT-GOBAIN ABRASIFS, having a principal place of business at Rue de l'Ambassadeur, 78700 Conflans-Sainte-Honorine, FRANCE,

its successors, assigns and legal representatives, my entire right, title and interest throughout the world, including all rights to claim priority, in and to the invention disclosed in:

- U.S. Patent Application executed on or about the date of this Assignment,
- U.S. Patent Application executed on \_\_\_\_\_,
- U.S. Provisional Application \_\_\_\_\_, filed on \_\_\_\_\_,
- U.S. Application No.: 13/384,331, filed on January 16, 2012, or
- International Application No.: PCT/\_\_\_\_\_, filed on \_\_\_\_\_.

ENTITLED: **ABRASIVE TOOL WITH FLAT AND CONSISTENT SURFACE TOPOGRAPHY FOR CONDITIONING A CMP PAD AND METHOD FOR MAKING**, and naming as

INVENTOR(S): Jianhui Wu, Guohua Zhang, and Richard W. J. Hall.

("Invention") including without limitation, my entire right, title and interest in and to any and all United States and foreign applications (including international, regional and foreign national applications) for said Invention, including divisions, continuations, continuations-in-part, utility models, industrial designs, renewals, substitutes and extensions thereof, and in and to any and all patents, invention registrations, or other forms of protection ("Patents") of every country or region that may be granted or have been granted for said Invention, including any reissues and reexaminations thereof.

To comply with 37 C.F.R. § 3.21 for recording this Assignment, I authorize and request that the application number and filing date be inserted here, if not already shown above, ( / , filed ) when they become known.

I authorize Assignee to apply for patents in foreign countries for said Invention, and to claim all rights of priority without further authorization from me.

I agree that, upon request and without further compensation, but at no expense to me, I and/or my legal representatives and assigns will do all lawful acts, including the execution of papers and the giving of testimony, that may be necessary or desirable for obtaining, sustaining, reissuing, or enforcing the Patents in the United States and throughout the world for said Invention, and for perfecting, recording, or maintaining the title of Assignee, its successors and assigns, to said Invention, said application, and any Patents granted for said Invention in the United States and throughout the world.

I hereby covenant that no assignment, sale, license, agreement, or encumbrance has been or will be made or entered into that would conflict with this Assignment.

I authorize and request the Director of the United States Patent and Trademark Office and agencies, departments, or other similar offices and officials of all foreign countries to issue any Patents granted for said Invention, whether on said application or on any subsequently filed divisional, continuation, continuation-in-part, reexamination, reissue or other application, to Assignee, its successors and assigns, as the assignee of the entire interest in said Invention.

Executed on 01/24, 2012 by Jianhui Wu  
Jianhui Wu  
Witnessed on January 24<sup>th</sup>, 2012 by Sandra Hereman  
Witness Signature

Executed on \_\_\_\_\_, 20\_\_ by \_\_\_\_\_  
Guohua Zhang  
Witnessed on \_\_\_\_\_, 20\_\_ by \_\_\_\_\_  
Witness Signature

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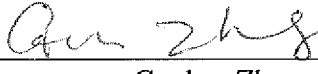

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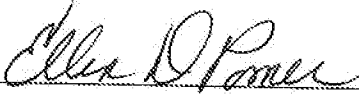
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Executed on _____, 20__ by _____ Jianhui Wu
Witnessed on _____, 20__ by _____ Witness Signature

Executed on <u>1/24</u> , 20 <u>12</u> by <u></u> Guohua Zhang
Witnessed on <u>1/24</u> , 20 <u>12</u> by <u></u> Witness Signature

Executed on 5 FEB, 2012 by   
Richard W. J. Hall

Witnessed on 5 FEB, 2012 by   
Witness Signature