

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>Mitsuo UNNO</td> <td>03/11/2013</td> </tr> <tr> <td>Kazuya BABA</td> <td>03/11/2013</td> </tr> <tr> <td>Takashi KIKUDOME</td> <td>03/11/2013</td> </tr> </tbody> </table>		Name	Execution Date	Mitsuo UNNO	03/11/2013	Kazuya BABA	03/11/2013	Takashi KIKUDOME	03/11/2013
Name	Execution Date								
Mitsuo UNNO	03/11/2013								
Kazuya BABA	03/11/2013								
Takashi KIKUDOME	03/11/2013								
RECEIVING PARTY DATA									
Name:	HITACHI CHEMICAL COMPANY, LTD.								
Street Address:	9-2, Marunouchi 1-chome								
Internal Address:	Chiyoda-ku								
City:	Tokyo								
State/Country:	JAPAN								
Postal Code:	1006606								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13819726</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13819726				
Property Type	Number								
Application Number:	13819726								
CORRESPONDENCE DATA									
Fax Number:	7033126666								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
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ATTORNEY DOCKET NUMBER:	396.52864X00								
NAME OF SUBMITTER:	Melvin Kraus								
Signature:	/Melvin Kraus/								
Date:	05/10/2013								
Total Attachments: 1 source=Assignment#page1.tif									

OP \$40.00 13819726

PATENT

ASSIGNMENT	ATTY. DOCKET NO.:
	396.52864X00

WHEREAS the below named inventor (if only one inventor is named below) or inventors (if plural inventors are named below) hereinafter referred to as the ASSIGNOR invented a certain improvement relating to

NON-ASBESTOS FRICTION MATERIAL COMPOSITION, AND FRICTION MATERIAL AND FRICTION MEMBER USING SAME

for which an application for Letters Patent to be filed in the United States Patent and Trademark Office was executed on even date.

for which U.S. Application No.		for Letters Patent was filed in the U.S. Patent and Trademark Office on

for which an International Application was filed on November 7, 2011 as PCT/JP2011/075637, designating the United States.

AND WHEREAS	HITACHI CHEMICAL COMPANY, LTD. 9-2, Marunouchi 1-chome, Chiyoda-ku, Tokyo 1006606 Japan
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hereinafter referred to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, reexaminations and extensions thereof.

NOW, WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, ASSIGNOR hereby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, and in and to any and all priority and/or convention rights or benefits accruing or to accrue with respect to the filing or securing of patents in the United States and/or any countries foreign thereto, SAID ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such Letters Patent when granted, including any and all renewals, reissues, reexaminations and extensions thereof, for the use and benefit of ASSIGNEE and its assigns and legal representatives, in as ample and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and enjoyed the same, if the assignment had not been made.

AND ASSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States and foreign countries for said invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to execute any other papers that may be needed in connection with filing said applications and securing Letters Patents thereon.

AND ASSIGNOR authorizes the Commissioner of Patents and Trademarks to issue a Letters Patent on said application, and on any and all divisions and continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.

The undersigned hereby grant(s) the law firm of Antonelli, Terry, Stout, Kraus, LLP the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR.

	FULL NAME OF SOLE OR FIRST NAMED INVENTOR	INVENTOR'S SIGNATURE	DATE
201	Mitsuo UNNO	<i>Mitsuo Unno</i>	MAR. 11. 2013
202	Kazuya BABA	<i>Kazuya Baba</i>	MAR. 11. 2013
203	Takashi KIKUDOME	<i>Takashi Kikudome</i>	MAR. 11. 2013
204	FULL NAME OF FOURTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
205	FULL NAME OF FIFTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
206	FULL NAME OF SIXTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE

PATENT

RECORDED: 05/10/2013

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