

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

| 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>Yuji HASHIBA</td> <td>09/12/2012</td> </tr> <tr> <td>Kei YOSHIMURA</td> <td>09/12/2012</td> </tr> <tr> <td>Shinichi TACHIZONO</td> <td>09/12/2012</td> </tr> <tr> <td>Takashi NAITO</td> <td>09/27/2012</td> </tr> <tr> <td>Takuya AOYAGI</td> <td>09/27/2012</td> </tr> <tr> <td>Tadashi FUJIEDA</td> <td>09/27/2012</td> </tr> </tbody> </table> | | Name | Execution Date | Yuji HASHIBA | 09/12/2012 | Kei YOSHIMURA | 09/12/2012 | Shinichi TACHIZONO | 09/12/2012 | Takashi NAITO | 09/27/2012 | Takuya AOYAGI | 09/27/2012 | Tadashi FUJIEDA | 09/27/2012 |
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| Yuji HASHIBA | 09/12/2012 | | | | | | | | | | | | | | |
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| <table border="1"> <tr> <td>Name:</td> <td>Hitachi Chemical Company, Ltd.</td> </tr> <tr> <td>Street Address:</td> <td>1-1, Nishishinjuku 2-chome, Shinjuku-ku,</td> </tr> <tr> <td>City:</td> <td>Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> </table> | | Name: | Hitachi Chemical Company, Ltd. | Street Address: | 1-1, Nishishinjuku 2-chome, Shinjuku-ku, | City: | Tokyo | State/Country: | JAPAN | | | | | | |
| Name: | Hitachi Chemical Company, Ltd. | | | | | | | | | | | | | | |
| Street Address: | 1-1, Nishishinjuku 2-chome, Shinjuku-ku, | | | | | | | | | | | | | | |
| City: | Tokyo | | | | | | | | | | | | | | |
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| <table border="1"> <tr> <td>Name:</td> <td>Hitachi, Ltd.</td> </tr> <tr> <td>Street Address:</td> <td>6-6, Marunouchi 1-chome, Chiyoda-ku,</td> </tr> <tr> <td>City:</td> <td>Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> </table> | | Name: | Hitachi, Ltd. | Street Address: | 6-6, Marunouchi 1-chome, Chiyoda-ku, | City: | Tokyo | State/Country: | JAPAN | | | | | | |
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| City: | Tokyo | | | | | | | | | | | | | | |
| State/Country: | JAPAN | | | | | | | | | | | | | | |
| 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>13637986</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 13637986 | | | | | | | | | | |
| Property Type | Number | | | | | | | | | | | | | | |
| Application Number: | 13637986 | | | | | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | | | | | |
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| ATTORNEY DOCKET NUMBER: | 520.52688X00 |
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| NAME OF SUBMITTER: | Alan E. Schiavelli |
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| Total Attachments: 1 source=52688X00ASN#page1.tif |
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ASSIGNMENT

(譲渡証)

As a below named inventor, I hereby declare that:

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to the below named inventor(s), citizens of Japan by Hitachi Chemical Company, Ltd., and Hitachi, Ltd., corporations organized under the laws of Japan, located at 1-1, Nishishinjuku 2-chome, Shinjuku-ku, Tokyo, Japan, and 6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo, Japan, respectively, receipt of which is hereby acknowledged, we, the below named inventor(s), do hereby sell and assign to said Hitachi Chemical Company, Ltd., and Hitachi, Ltd., their successors and assigns, all our right, title and interest, in and for the United States of America, in and to

invented by us and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said Hitachi Chemical Company, Ltd., and Hitachi, Ltd., their successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made;

And we hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of said above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And we do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said Hitachi Chemical Company, Ltd., and Hitachi, Ltd.,

Signed on the date(s) indicated aside signatures:

| | INVENTOR(S) (発明者フルネームサイン) | Date Signed (署名日) |
|-----|--|----------------------|
| 1) | Yuji HASHIBA <u>Yuji Hashiba</u> | <u>9/12/2012</u> |
| 2) | Kei YOSHIMURA <u>Kei Yoshimura</u> | <u>9/12/2012</u> |
| 3) | Shinichi TACHIZONO <u>Shinichi Tachizono</u> | <u>9/12/2012</u> |
| 4) | Takashi NAITO <u>Takashi Naito</u> | <u>9/27/2012</u> |
| 5) | Takuya AOYAGI <u>Takuya Aoyagi</u> | <u>9/27/2012</u> |
| 6) | Tadashi FUJIEDA <u>Tadashi Fujieda</u> | <u>9/27/2012</u> |
| 7) | _____ | _____ |
| 8) | _____ | _____ |
| 9) | _____ | _____ |
| 10) | _____ | _____ |