

**PATENT ASSIGNMENT**

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| SUBMISSION TYPE:   | NEW ASSIGNMENT                          |
| NATURE OF CONVEYANCE:  | ASSIGNMENT                              |
| <b>CONVEYING PARTY DATA</b>  |   |
| <b>Name</b>  | <b>Execution Date</b>                   |
| Shinichiro Yanagawa  | 05/15/2008                              |
| Michikazu Hara   | 05/15/2008                              |
| <b>RECEIVING PARTY DATA</b>  |   |
| <b>Name:</b>   | Nippon Oil Corporation                  |
| <b>Street Address:</b>   | 3-12, Nishishinbashi 1-chome, Minato-ku |
| <b>City:</b>   | Tokyo                                   |
| <b>State/Country:</b>  | JAPAN                                   |
| <b>Name:</b>   | Tokyo Institute of Technology           |
| <b>Street Address:</b>   | 2-12-1 Ookayama, Meguro-ku              |
| <b>City:</b>   | Tokyo                                   |
| <b>State/Country:</b>  | JAPAN                                   |
| <b>PROPERTY NUMBERS Total: 1</b>   |   |
| <b>Property Type</b>   | <b>Number</b>                           |
| <b>Application Number:</b>   | 12085853                                |
| <b>CORRESPONDENCE DATA</b>   |   |
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| <b>Correspondent Name:</b>   | Weingarten Schurgin Gagnebin & Lebovici |
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| <b>ATTORNEY DOCKET NUMBER:</b>   | AK-543XX                                |
| <b>NAME OF SUBMITTER:</b>  | Charles L. Gagnebin III                 |

CH \$40.00 12085853

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**PATENT  
 REEL: 022586 FRAME: 0667**

Total Attachments: 2

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**ASSIGNMENT**

In consideration of One Dollar and other good and valuable consideration, the receipt of which is hereby acknowledged, we,

Shinichiro YANAGAWA, having an address at  
c/o NIPPON OIL CORPORATION  
8, Chidori-cho, Naka-ku,  
Yokohama-shi, Kanagawa, JAPAN, and

Michikazu HARA, having an address at  
c/o TOKYO INSTITUTE OF TECHNOLOGY  
4259 Nagatsuta-cho, Midori-ku,  
Yokohama-shi, Kanagawa, JAPAN,

hereby sell and assign to NIPPON OIL CORPORATION, a Japanese company having a principal place of business at 3-12, Nishishinbashi 1-chome, Minato-ku, Tokyo Japan, and to TOKYO INSTITUTE OF TECHNOLOGY, an academic juridical person of Japan, having a business address at 2-12-1 Ookayama, Meguro-ku, Tokyo, Japan, their successors and assigns, as joint owners, the entire right, title and interest, including the right to claim priority under the International Convention, throughout the United States, its territories and all foreign countries in and to our invention in

**METHOD OF HYDRATING OLEFINS**

and the application for United States Letters Patent therefor filed on May 30, 2008, Application No. 12/085,853, (Attorney Docket No. AK-543XX) and such patents as may issue thereon, and all divisions, reissues and continuations thereof and continuations-in-part.

And we hereby covenant that we have full right to make such assignment, and agree for ourselves and our executors and administrators that we will, at the expense of said NIPPON OIL CORPORATION and TOKYO INSTITUTE OF TECHNOLOGY, execute all applications for patents in foreign countries, execute all divisional, continuing, reissue and re-examination applications, make all rightful oaths, sign all lawful papers, testify in any proceeding in which said invention or any application or patent directed thereto may be involved, and generally do everything possible to aid said NIPPON OIL CORPORATION and TOKYO INSTITUTE

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OF TECHNOLOGY, their successors and assigns, to obtain and enforce proper patent protection for said invention in the United States, its territories and all foreign countries.

And we hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent on said invention or resulting therefrom to NIPPON OIL CORPORATION and TOKYO INSTITUTE OF TECHNOLOGY, as joint owners, their successors and assigns.

IN WITNESS WHEREOF, we have hereunto set our hands and affixed our seals.

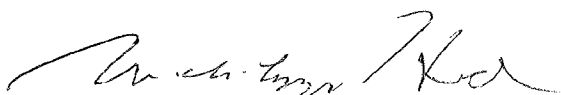
  
Shinichiro YANAGAWA

Date: May 15, 2008

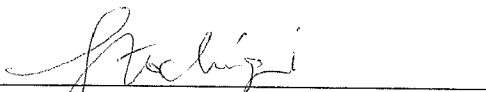
  
Witness (Signature)

Date: May 15, 2008

Michiaki Adachi  
Witness (Please Print Name)

  
Michikazu HARA

Date: May 15, 2008

  
Witness (Signature)

Date: May 15, 2008

Junko TOCHIGI  
Witness (Please Print Name)

CLG/mc/365490.1