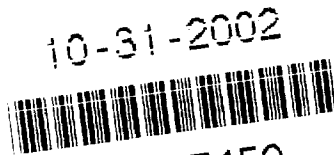


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(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

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U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Ting He

10-21-02

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: 12/18/00

2. Name and address of receiving party(ies)

Name: Honda Giken Kogyo Kabushiki Kaisha

Internal Address: _____

Street Address: No. 1-1Minami-Aoyama 2-chome
Minato-ku

City: Tokyo, Japan State: Zip: 107-8556

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s) 09/742,697

B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Edwin M. Baranowski

Internal Address: _____

Porter Wright Morris & Arthur LLP

Street Address: 41 South High Street

City: Columbus State: OH Zip: 43215

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

☐ Enclosed

☒ Authorized to be charged to deposit account

8. Deposit account number:

16-2326

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9. Signature.

Edwin M. Baranowski

Name of Person Signing

Signature

10/16/02

Date

Total number of pages including cover sheet, attachments, and documents: 4

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
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PATENT
REEL: 013430 FRAME: 0461

**IN THE UNITED STATES DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE**

Inventor: Ting He

Serial Number: To be assigned.

Filed: By Express Mail Receipt No. EL485896621US

For: METHOD FOR ENHANCING THE SURFACE OF A SUBSTRATE AND
 CATALYST PRODUCTS PRODUCED THEREBY

Attorney's Docket No.: D00051

ASSIGNMENT TO HONDA GIKEN KOGYO KABUSHIKI KAISHA

Whereas, I the undersigned assignor, Ting He residing at Dublin, Ohio, a citizen of the People's Republic of China, and having a business address at 21001 State Route 739, Raymond, Ohio, have invented certain new and useful improvements in a METHOD FOR ENHANCING THE SURFACE OF A SUBSTRATE AND CATALYST PRODUCTS PRODUCED THEREBY, for which I have filed an application for Letters Patent of the United States of even date herewith;

And whereas, Honda Giken Kogyo Kabushiki Kaisha, a corporation of Japan, having a business address of No. 1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo, Japan, is desirous of acquiring the entire right, title and interest in, to and under the said invention and said patent application, any continuing applications, continuations-in-part, divisional applications, refiled or reissue applications made in the United States and all other Nations which may result from the invention and information disclosed in said application, and any and all Letters Patent of the United States and other Nations which may be issued therefore;

Now, therefore, for and in consideration of the sum of one dollar (\$1.00) and other good and valuable consideration, the receipt of which I hereby acknowledge, I, the said Ting He, by these presents do hereby sell, assign and transfer to Honda Giken Kogyo Kabushiki Kaisha the entire and undivided right, title and interest in and to my invention of new and useful improvements in and to METHOD FOR ENHANCING THE SURFACE OF A SUBSTRATE AND CATALYST PRODUCTS PRODUCED THEREBY, my said application for letters patent, the invention therein described, and all rights appurtenant thereto, and in all applications related

thereto, including each of the following: the right to apply for any letters patent for said invention for the United States of America and in any and all foreign countries, any and all other applications for letters patent on said invention, in whatsoever countries, including all divisional, renewal, substitute and continuation applications based in whole or in part upon said invention or upon said application or related thereto; any and all letters patent that may issue thereon in the United States and foreign countries and any and all reissues, extensions, renewals, divisions, or continuations of letters patent granted for said inventions or upon said applications, to the full end of the term or terms for which said letters patent may be issued; and every priority or other right accorded by every international convention, treaty or agreement that is or may be predicated upon or arise from said invention, application and other applications or letters patent therefor, all to be held and enjoyed by Honda Giken Kogyo Kabushiki Kaisha, its successors and assigns, all the same as I would have held and enjoyed had this Assignment not been made.

I hereby authorize and grant the right to Honda Giken Kogyo Kabushiki Kaisha to file and prosecute patent applications in any or all countries on all or any part of said invention in my name or in the name of Honda Giken Kogyo Kabushiki Kaisha or otherwise, as Honda Giken Kogyo Kabushiki Kaisha may deem advisable under any international convention, treaty, or agreement or otherwise.

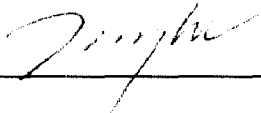
I hereby request and authorize the Commissioner of Patents and Trademarks of the United States and the empowered officials of all other countries to grant, issue and transfer any letters patent for the said inventions arising out of said application to Honda Giken Kogyo Kabushiki Kaisha, as assignee of the entire right, title and interest therein, in accordance with this instrument of assignment.

I hereby represent and warrant that there are no rights or interest outstanding inconsistent with the rights and interests granted herein; I covenant that I will not execute, grant, or transfer any rights or interests inconsistent herewith, I bind myself, my heirs, executors, administrators and legal representatives to execute and deliver to Honda Giken Kogyo Kabushiki Kaisha, its successors and assigns, any further documents or instruments and to perform any and all further acts that may be deemed necessary to enable it, its successors and assigns to file the said applications for letters patent and for the said invention in any country in which it may elect to file such applications, and to vest in Honda Giken Kogyo Kabushiki Kaisha, its successors and assigns, the title herein conveyed and intended to so be, and to enable such title to be recorded in the United States and each foreign country in which each such application may be filed so that any patent issued thereon shall be issued to Honda Giken Kogyo Kabushiki Kaisha, its successors and assigns; and I further covenant and agree, for myself and my executors, administrators and legal

representatives, that I and they will, upon request, communicate to, its successors and assigns, any facts relating to the said invention and the history thereof, known to me or them and that I and they will testify as to the same in any proceeding, interference or litigation when requested to do so by Honda Giken Kogyo Kabushiki Kaisha, its successors and assigns.

Full name of inventor: Ting He

Inventor's signature:



Date: December 18, 2000

Residence Address: 5771B Heathstead Dr.
Dublin, Ohio 43016

Business Address: 21001 State Route 739
Raymond, Ohio 43067

Citizenship: People's Republic of China

STATE OF OHIO :
COUNTY OF UNION : ss:

Before me personally appeared Ting He who acknowledged to me that the execution of the foregoing instrument is his free act and deed, this 18 day of December 2000.



Notary Public

MARK E. DUELL
ATTORNEY AT LAW
NOTARY PUBLIC STATE OF OHIO
MY COMMISSION EXPIRES 06/30/2006
SEC 147.01 ORC

COLUMBUS/854939 v.02