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Atty. Docket No.: 2224-0143P

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CORDATION FORM COVER SHEET

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

1. Name of conveying party(ies): Yasutaka ISHII Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		2. Name and address of receiving party(ies) Name: Daicel Chemical Industries, LTD. Internal Address: Street Address: 1, Teppo-cho, Sakai-shi City: Osaka State: ZIP: 590-8501 Country: JAPAN Postal Code: Additional name(s) & address(es) attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other:		Execution Date: June 20, 2000	
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). 09/142,089		B. Patent No.(s).	
Additional numbers attached? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
5. Name and address of party to whom correspondence concerning document should be mailed: Name: BIRCH, STEWART, KOLASCH & BIRCH, LLP Street Address: P.O. BOX 747 City: FALLS CHURCH State: VA ZIP: 22040-0747 Country: USA		6. Total No. of applications/patents involved: One (1) 7. Total fee (37 C.F.R. § 3.41): \$40.00 <input checked="" type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account, if no fee attached. 8. Deposit account number: 02-2448 (Attach triplicate copy of this page if paying by deposit account)	
02/22/2001 DBYRNE 00000106 09142089 01 FC:581 40.00 OP		DO NOT USE THIS SPACE	
9. Statement and signature. <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i> <div style="display: flex; justify-content: space-between;"> <div> Raymond C. Stewart, #21,066 Name of Person Signing/Reg. No. </div> <div> Signature </div> <div> February 9, 2001 Date </div> </div>			
Total number of pages including cover sheet, attachments, and document: Three (3)			

RCS/GMD/cms

(Rev. 01-11-01)

PATENT
REEL: 011527 FRAME: 0417

Serial No. 09/142,089
Docket No.: 2224-143P

ASSIGNMENT

WHEREAS, YASUTAKA ISHII, residing at 19-21, Besshohonmachi, Takatsuki-shi, Osaka, Japan, is a co-owner by previous assignment, dated September 1, 1998 (recorded at Reel 9771, Frames 0412-0415), of the right, title and interest of the inventors Yasutaka ISHII, Tatsuya NAKANO and Satoshi SAKAGUCHI in and to an invention for new and useful improvements in or relating to a NITRATION OR CARBOXYLATION CATALYSTS, for which an application for Letters Patent in the United States was executed on August 21, 1998, and assigned Serial No. 09/142,089, and is a co-owner of the right, title and interest in and to said application in the United States by said previous assignment;

WHEREAS, DAICEL CHEMICAL INDUSTRIES, LTD., a corporation organized and existing under and by virtue of the laws of Japan, having a place of business at 1, Teppo-cho, Sakai-shi, Osaka 590-8501 Japan, is desirous of acquiring the entire right, title and interest in and to the said application and the invention therein described and claimed and any Letters Patent that may be issued upon said application or for the improvements therein contained;

NOW, THEREFORE, for and in consideration of the sum of Ten Dollars (\$10.00) lawful money of the United States and other valuable considerations, to me in hand paid, the receipt of and sufficiency whereof are hereby acknowledged, said YASUTAKA ISHII has sold, assigned and transferred and does hereby sell, assign and transfer unto DAICEL CHEMICAL INDUSTRIES, LTD., its successors and assigns, his entire right, title and interest in and to the said application and the invention therein contained, including the right to apply for any

Letters Patent in the United States of America on said invention and including the right to claim the priority of the date of filing in the United States and any Letters Patent that may issue thereon, or therefor, in the United States and all reissues, extensions, renewals, divisions and continuations thereof, to the full end of the term or terms for which said Letters Patent may be issued, to be held and enjoyed by DAICEL CHEMICAL INDUSTRIES, LTD., its successors and assigns the same as it would have been held and enjoyed by YASUTAKA ISHII, if this assignment and sale had not been made.

AND, YASUTAKA ISHII hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all such Letters Patents to DAICEL CHEMICAL INDUSTRIES, LTD., in accordance with this instrument of assignment.

YASUTAKA ISHII hereby represents and warrants that there are no rights or interests outstanding inconsistent with the rights and interest granted herein and that YASUTAKA ISHII will not execute any instrument or grant or transfer any rights or interests inconsistent therewith, and YASUTAKA ISHII binds himself and his heirs, executors, administrators, employees and legal representatives, as the case may be, to execute and deliver to DAICEL CHEMICAL INDUSTRIES, LTD., its successors and assigns, any further documents or instruments and do any and all further acts that may be deemed necessary by DAICEL CHEMICAL INDUSTRIES, LTD., its successors and assigns to file applications for the said improvements and invention in any country where it may elect to file such applications, and that may be necessary to vest in DAICEL CHEMICAL INDUSTRIES, LTD., its successors and assigns, the title herein

conveyed, or intended so to be, and to enable such title to be recorded in the United States and foreign countries where such application or applications may be filed.

AND, YASUTAKA ISHII further covenants and agrees, in consideration of the premises, that he, his executors and administrators will, at any time upon request, communicate to DAICEL CHEMICAL INDUSTRIES, LTD., its successors and assigns, any facts relating to the said invention and improvements and the history thereof, known to it or its successors and assigns, and that he will testify as to the same in any interference or other proceeding when requested to do so by DAICEL CHEMICAL INDUSTRIES, LTD., its successors and assigns.

The undersigned hereby grants the law firm of Birch, Stewart, Kolasch & Birch, 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 U.S. Patent and Trademark Office for recordation of this document.

IN TESTIMONY WHEREOF, YASUTAKA ISHII has hereunto set my hands and seal this 20th day of June, 2000.

By: *Yasutaka Ishii*
YASUTAKA ISHII