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## ER SHEET

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To the Honorable Commissioner  
Please record the attached originalPatents and Trademarks:  
Documents or copy thereof.

1. Name of conveying party(ies): <b>TAKAHASHI, Ikuo; SHIBATA, Hikaru</b> 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: <b>DAICEL CHEMICAL INDUSTRIES, LTD.</b> Internal Address: Street Address: <b>1, Teppo-cho, Sakai-shi</b> City: <b>OSAKA</b> State: ZIP: Country: <b>JAPAN</b> Postal Code: <b>590-8501</b> 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: <b>May 12, 1999</b>			
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: <b>May 12, 1999</b> A. Patent Application No(s). <b>New</b> 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: <b>BIRCH, STEWART, KOLASCH &amp; BIRCH, LLP</b> Street Address: <b>P.O. BOX 747</b> City: <b>FAIRFAX, VIRGINIA</b> ZIP: <b>22040-0747</b> Country: <b>USA</b>		6. Total No. of applications/patents involved: <b>One (1)</b> 7. Total fee (37 C.F.R. § 3.41): <b>\$40.00</b> <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: <b>02-2448</b> (Attach triplicate copy of this page if paying by deposit account)	
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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; align-items: flex-end;"> <div> <b>Raymond C. Stewart, #21,066</b>            Name of Person Signing/Reg. No.         </div> <div style="text-align: center;">             Signature         </div> <div> <b>June 1, 1999</b>            Date         </div> </div>			
Total number of pages including cover sheet, attachments, and document: <b>Three (3)</b>			

Mail documents to be recorded with required cover sheet information to:  
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RCS/sas

ATTORNEY DOCKET NO.  
2224-156P

## ASSIGNMENT

Application No. New

Filed June 1, 1999

WHEREAS, Ikuo TAKAHASHI

Hikaru SHIBATA

Insert Name(s)  
of Inventor(s)

Insert Title  
of Invention

(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in \_\_\_\_\_

OXIDATION CATALYST AND OXIDATION PROCESS USING THE SAME

for which an application for Letters Patent of the United States of America has been executed by the undersigned

Insert Date  
of Signing of  
Application

on May 12, 1999; and

WHEREAS, DAICEL CHEMICAL INDUSTRIES, LTD.

Insert Name  
of Assignee

Insert Address  
of Assignee

of 1, Teppo-cho, Sakai-shi, OSAKA 590-8501 JAPAN

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the

CHECK  
ONE BOX

- (1) ☒ United States of America only; or  
(2) ☐ United States of America and any and all foreign countries

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents do sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in:

1. the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, if box (1) above is designated;

or

2. the United States of America, its territories, dependencies and possessions and in any and all foreign countries and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions and in any and all foreign countries, if box (2) above is designated;

and to any and all divisions, reissues, continuations and extensions thereof for the full term or terms for which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and/or any and all foreign countries to issue any and all Letters Patents resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch and 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.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

*In witness whereof*, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date May 12, 1999 , Name of Inventor Ikuo Takahashi (SEAL)  
(signature) (IKUO TAKAHASHI)

Date May 12, 1999 , Name of Inventor Hikaru Shibata (SEAL)  
(signature) (HIKARU SHIBATA)

Date \_\_\_\_\_ , Name of Inventor \_\_\_\_\_ (SEAL)  
(signature)

Date \_\_\_\_\_ , Name of Inventor \_\_\_\_\_ (SEAL)  
(signature)

Date \_\_\_\_\_ , Name of Inventor \_\_\_\_\_ (SEAL)  
(signature)

Date \_\_\_\_\_ , Name of Inventor \_\_\_\_\_ (SEAL)  
(signature)

The execution by the Inventor(s) of this assignment may be witnessed by at least two other persons who sign here.

Witness Shuichi Yamagiwa

Witness Takashi Tohi