

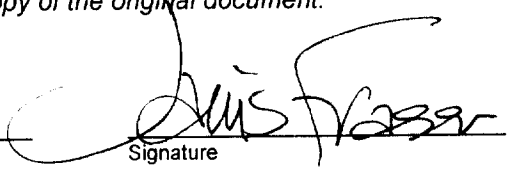
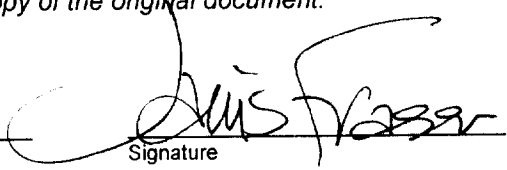
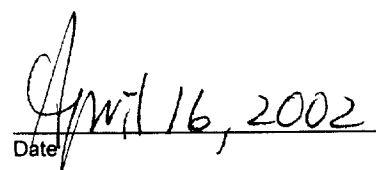
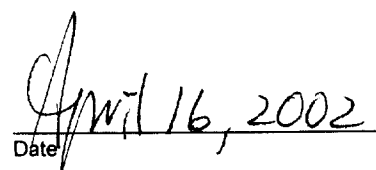
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Substitute Form PTO-1595
torney Docket No.: 06501-090001
lient's Ref. No.: D1-A0001Y1P-US

RECORDA

PATENT 102074502

4/23/02

Commissioner for Patents: Please record the attached original document(s) or copy(ies).	
1. Name of conveying party(ies): Masatake Kudoh and Hiroaki Yamamoto Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): Daicel Chemical Industries, Ltd. 1 Teppo-cho, Sakai-shi Osaka 590-8501 JAPAN Additional names/addresses 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: December 14, 2001	
4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s): 09/978,758 B. Patent No(s): Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Name/address of party to whom correspondence concerning document should be mailed: JANIS K. FRASER, PH.D., J.D. Fish & Richardson P.C. 225 Franklin Street Boston, Massachusetts 02110-2804	6. Total number of applications/patents involved: 1 7. Total fee (37 CFR §3.41): \$40 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to charge Deposit Account. 8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.
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> Janis K. Fraser, Ph.D., J.D. Reg. No. 34,819 Name of Person Signing  Signature  Date  Date 	
Total number of pages including coversheet, attachments and document: 3	

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CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner of Patents, Washington, D.C. 20231.

APRIL 16, 2002
Date of Deposit


Signature

KATHLEEN PHILPOT
Typed Name of Person Signing Certificate

PATENT
REEL: 012834 FRAME: 0778

ASSIGNMENT

For valuable consideration, we, MASATAKE KUDOH of Ibaraki, JAPAN, and HIROAKI YAMAMOTO of Ibaraki, JAPAN, hereby assign to:

Daicel Chemical Industries, Ltd., a Japanese corporation having a place of business at:

1, Teppo-cho, Sakai-shi
Osaka 590-8501 JAPAN; and

its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled (R)-2-OCTANOL DEHYDROGENASES, METHODS FOR PRODUCING THE ENZYMES, DNA ENCODING THE ENZYMES, AND METHODS FOR PRODUCING ALCOHOLS USING THE ENZYMES, filed October 16, 2001, and assigned U.S. Serial Number 09/978,758, this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

IN WITNESS WHEREOF, I hereto set my hand and seal at Ibaraki, Japan,
this 14th day of December, 2001
Masatake Kudoh L.S.
MASATAKE KUDOH

Witnessed by: Akinobu Matsuyama
Name: Akinobu Matsuyama Date: December 14, 2001

Witnessed by: Takashi Takei
Name: Takashi Takei Date: December 14, 2001

IN WITNESS WHEREOF, I hereto set my hand and seal at Ibaraki
~~Fukuba~~, JAPAN
this 14th day of December, 2001
Hiroaki Yamamoto L.S.
HIROAKI YAMAMOTO

Witnessed by: Akinobu Matsuyama
Name: Akinobu Matsuyama Date: December 14, 2001

Witnessed by: Takashi Takei
Name: Takashi Takei Date: December 14, 2001