| Attorney Docker No. | 08-02-2001 | | | |
|-------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------|--|--|
| RECO | | | | |
| MTC 6638.7 | | | | |
| To the Honorable Commissioner of Paten | 101706116 | document(s) or copy thereof. | | |
| 1. Name of conveying party(ies) (assignor(s)): 7-24 | 701 | | | |
| David A. Morgenstern, Juan P. Arhancet, Howard C | . Berk, William L. Moench, Jr. and James C. Peter | son | | |
| Additional name(s) of conveying party(ies) attached? □ y | es 🛛 no | | | |
| 2. Name and Address of Party(ies) receiving an interest (assi | | JIII - 3 4 2001 | | |
| Name: Monsanto Company | | | | |
| Address: 800 North Lindbergh Boulevard | | | | |
| City:St. Louis | | | | |
| State: <u>MO</u> <u>Zip: 63167</u> | | | | |
| Country: USA | | | | |
| Additional name(s) & address(es) attached? ☐ yes 🛛 n | 0 | | | |
| 3. Nature of Conveyance: | | | | |
| ☑ Assignment ☐ Merger | ☐ Change of Name | | | |
| ☐ Verified Translation ☐ Security Agree | ment Other | | | |
| Execution Date: June 29, 2001 and July 9, 2001 | | | | |
| | | | | |
| Application number(s) or patent number(s): | | | | |
| If this document is being filed together with a new applica | tion, the execution date(s) of the application is: | | | |
| A. Patent Application No(s). | B. Patent No(s). | | | |
| 09/832,541 | | | | |
| Others on additional sheet(s) attached? Yes No | | | | |
| Name and address of party to whom correspondence | 6. Total number of applications and | d natents involved | | |
| concerning document should be mailed: | Application(s) 1 + Patent(s | • | | |
| James E. Davis, Reg. No. 47,516 | 7. Total Fee (37 CFR 3. | 41)\$ 40.00 | | |
| Senniger, Powers, Leavitt & Roedel | ☑ Enclosed | | | |
| One Metropolitan Square | ☐ Authorized to be charged to | deposit account | | |
| 16th Floor St. Louis, Missouri 63102 (314) 231-5400 (telephone) | 8. Deposit Account Number: 19-13 (Duplicate copy of this sheet) | | | |
| (314) 231-3400 (telepholie) | ☑ Charge any underpayment or above Deposit Account | · · | | |
| | DO NOT USE THIS SPACE | | | |
| 9. Statement and signature | | | | |
| To the best of my knowledge and belief, the foregoing info | rmation is true and correct and any attached copy | is a true copy of the original document. | | |
| | ↑ 5. N = | 7/24/01 | | |
| James E. Davis, Reg. No. 47,516 Name of Person Signing | Signature | Date | | |
| Total number of pages including cover sheet, attachments, and document: | | | | |
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| I | | | | |

PATENT REEL: 012019 FRAME: 0456 **ASSIGNMENT**

WHEREAS, We, David A. Morgenstern of Creve Coeur, Missouri, Juan P. Arhancet of

Creve Coeur, Missouri, Howard C. Berk of St. Louis, Missouri, William L. Moench of Town &

Country, Missouri and James C. Peterson of Manchester, Missouri have invented an improvement

in PROCESS AND CATALYST FOR DEHYDROGENATING PRIMARY ALCOHOLS TO

MAKE CARBOXYLIC ACID SALTS (Monsanto Ref. 39-21 (51753); Our File MTC 6638.7) and

have executed an application for a United States patent based thereon Serial No. 09/832,541, filed

April 11, 2001;

AND, WHEREAS, MONSANTO COMPANY of 800 North Lindbergh Boulevard, St.

Louis, MO 63167, a corporation of the State of Delaware (hereinafter referred to as "ASSIGNEE")

is desirous of acquiring certain rights thereunder;

NOW, THEREFORE, for one dollar and other good and valuable consideration, receipt of

all of which is hereby acknowledged, we have agreed to and do hereby sell, assign and transfer unto

said ASSIGNEE the entire right, title and interest in and throughout the United States of America

(including its territories and dependencies) and all countries foreign thereto in and to said invention,

said United States application, any other United States applications (including provisional, non-

provisional, divisional, continuing, or reissue applications) based in whole or in part on said United

States application or in whole or in part on said invention, any foreign applications based in whole

or in part on any of the aforesaid United States applications or in whole or in part on said invention,

and any and all patents (including extensions thereof) of any country which have been or may be

granted on any of the aforesaid applications or on said invention or any part thereof;

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PATENT REEL: 012019 FRAME: 0457 TO BE HELD AND ENJOYED by said ASSIGNEE, its successors and assigns, as fully

and entirely as the same would have been held and enjoyed by us had no sale and assignment of said

interest been made;

AND We hereby authorize and request the Commissioner of Patents of the United States of

America to issue any and all United States patents which may be granted upon said United States

applications or any of them, or upon said invention or any part thereof, to said ASSIGNEE;

AND We hereby jointly and severally agree for ourselves and for our respective heirs,

executors and administrators, to execute without further consideration any further lawful documents

and any further assurances, and any provisional, non-provisional, divisional, continuing, reissue, or

other applications for patents of any country, that may be deemed necessary by said ASSIGNEE fully

to secure to said ASSIGNEE its interest as aforesaid in and to said invention or any part thereof, and

in and to said several patents or any of them;

AND We hereby jointly and severally covenant for ourselves and our respective legal

representatives that we have granted no right or license to make, use or sell said invention, to anyone

except said ASSIGNEE, that prior to the execution of this deed our right, title and interest in said

invention had not been otherwise encumbered, and that we have not executed and will not execute

any instrument in conflict herewith.

IN WITNESS WHEREOF, we have hereunto set our hands.

Land P. Lauret

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REEL: 012019 FRAME: 0458

ACKNOWLEDGMENT STATE OF MISSOURE) On this 29 day of Jone _____, 2001, before me, a Notary Public, personally appeared David A. Morgenstern to me known to be the person described in and who executed the foregoing assignment and acknowledged that he executed same as his free act and deed. IN TESTIMONY WHEREOF, I have hereunto set my hand and seal the date and year last **PATRICIA A. HRASTICH** OTARY PUBLIC-STATE OF MISSOURI MISSION EXPIRES DEC. 17, 2003 ST. LOUIS COUNTY , 2001, before me, a Notary Public, personally appeared

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Juan P. Arhancet to me known to be the person described, in and who executed, the foregoing

assignment and acknowledged that he executed same as his free act and deed.

COUNTY OF St

above written.

STATE OF $\underline{\gamma}$

My Commission Expires:

COUNTY OF St Louis

On this $\frac{9}{4}$ day of

| IN TESTIMONY WHEREOF, I have hereun last above written. | to set my hand and seal and the date and year | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|--|--|
| My Commission Expires: | PATRICIA A. HRASTICH NOTARY PUBLICSTATE OF MISSOURI MY COMMISSION EXPIRES DEC. 17, 2003 ST. LOUIS COUNTY | | |
| 12/17/03 | | | |
| STATE OF $M_{15500(\iota)}$ | | | |
| COUNTY OF STROULS | | | |
| On this $\frac{Q}{2}$ day of $\frac{1}{2}$, 2001, before me, a Notary Public, personally appeared Howard C. Berk to me known to be the person described, in and who executed, the foregoing assignment and acknowledged that he executed same as his free act and deed. | | | |
| IN TESTIMONY WHEREOF, I have hereun last above written. Notary Public | to set my hand and seal and the date and year | | |
| My Commission Expires: $12/17/03$ | PATRICIA A. HRASTICH NOTARY PUBLIC—STATE OF MISSOURI MY COMMISSION EXPIRES DEC. 17, 2003 ST. LOUIS COUNTY | | |
| | | | |
| STATE OF MISSOURI) COUNTY OF LOUIS) | | | |
| COUNTY OF 1 Louis) | | | |
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| IN TESTIMONY WHEREOF, I have he ast above written. Alicea Notary Public | ereunto set my hand and seal and the date and year | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|--|--|
| My Commission Expires: 12/17/03 | PATRICIA A. HRASTICH NOTARY PUBLIC—STATE OF MISSOURI MY COMMISSION EXPIRES DEC. 17, 2003 ST. LOUIS COUNTY | | |
| | | | |
| STATE OF MISSOUR) COUNTY OF St Louis) | | | |
| COUNTY OF St Louis) | | | |
| On this 29 day of, 2001, before me, a Notary Public, personally appeared James C. Peterson to me known to be the person described, in and who executed, the foregoing assignment and acknowledged that he executed same as his free act and deed. | | | |
| ast above written. | ereunto set my hand and seal and the date and year | | |
| My Commission Expires: | PATRICIA A. HRASTICH | | |
| 12/17/03 | NOTATIVE PUBLIC STATE OF AUSSOURI MY COMMISSION EXPIRES DEC. 17, 2003 SY LOUIS COUNTY | | |
| | | | |

PATENT REEL: 012019 FRAME: 0461

RECORDED: 07/24/2001