

12-05-2000

FORM PTO-1595 (Rev. 6-93) OMB No. 0651-0011 (exp. 4/94)



R SHEET

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

Tab settings

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

1. Name of conveying party(ies): Dennis J. Miller, Dushyant Shekhawat, Kirthivasan Nagarajan, James E. Jackson

2. Name and address of receiving party(ies) Board of Trustees operating Name: Michigan State University Internal Address: Street Address: 238 Administration Bldg. City: East Lansing State: MI ZIP: 48824

3. Nature of conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other

Execution Date: Shekhawat-9/26/00; Kirthivasan Nagarajan-10/27/00; James E. Jackson 9/15/00

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) 09/667,842 B. Patent No.(s)

Additional numbers attached? [] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Ian C. McLeod Internal Address: Street Address: 2190 Commons Parkway City: Okemos State: MI ZIP: 48864

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40 [X] Enclosed [] Authorized to be charged to deposit account

8. Deposit account number: (Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature. 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.

Ian C. McLeod Name of Person Signing Signature Date 11/03/00

Total number of pages including cover sheet, attachments, and document: 5

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

ASSIGNMENT

WHEREAS, We, Dennis J. Miller, Dushyant Shekhawat, Kirthivasan Nagarajan and James E. Jackson, residing at 2904 Chickory Dr., West Richland, Washington 99353, 808 J Cherry Lane, East Lansing, Michigan 48823, 1 LAKE SHORE DRIVE UNIT #2B WATERVILLE, NY 12189, and 6232 W. Reynolds Road, Haslett, Michigan 48840, respectively, have invented certain new and useful improvements in CATALYSTS AND PROCESSES FOR THE CONVERSION OF SUCCINATES TO CITRACONATES OR ITACONATES for which an application for United States Letters Patent was filed on Sept. 21, 2000 and assigned Serial No. 09/667,842 ; and

WHEREAS, Board of Trustees, a constitutional Corporation operating Michigan State University, (hereinafter referred to as Assignee) of East Lansing, State of Michigan is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefor in the United States and in any and all foreign countries.

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, the receipt whereof is hereby acknowledged, and other valuable considerations, We the said Dennis J. Miller, Dushyant Shekhawat, Kirthivasan Nagarajan and James E. Jackson, 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 the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations and extensions thereof.

We hereby authorize and request the Patent and Trademark Office officials in the United States and any

and all foreign countries to issue any and all of said Letters Patent, when granted to said Assignee as the assignee of our entire right, title and interest in and to the same for the sole use and behoof of the said Assignee, its successors and assigns.

FURTHER, We agree that we will communicate to said Assignee or its representatives any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitution, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said Assignee, make all rightful oaths and generally do everything possible to aid said Assignee, its successors and assigns, to obtain and enforce proper protection for said invention in the United States and in any and all foreign countries.

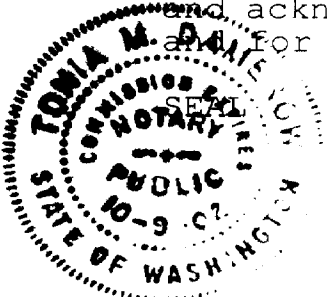
IN TESTIMONY WHEREOF, I have hereunto set my hand this 19th day of September, 2000.

Signed in the Presence of:

Dennis J. Miller
Dennis J. Miller

STATE OF Washington: ss.
COUNTY OF Benton :

On this 19th day of Sept., 2000, personally appeared before me the above Dennis J. Miller, to me known and known to me to be the person described in and who executed the foregoing instrument and acknowledged the same to be his free act and deed in and for the purposes set forth in said instrument.



Tonia M. Damerou
Notary Public
My Commission Expires: 10-09-2002
Tonia M. Damerou

IN TESTIMONY WHEREOF, I have hereunto set my hand this 26th day of SEPTEMBER 2000.

Signed in the Presence of:

Jose M. Brink Dushyant Shekhawat
Dushyant Shekhawat

STATE OF Michigan: ss.
COUNTY OF _____ :

On this 26 day of September, 2000, personally appeared before me the above Dushyant Shekhawat, to me known and known to me to be the person described in and who executed the foregoing instrument and acknowledged the same to be his free act and deed in and for the purposes set forth in said instrument.

SEAL

Jose M. Brink
Notary Public
My Commission Expires: _____

JOSE M. BRINK
NOTARY PUBLIC, MICHIGAN
MY COMMISSION EXPIRES 09/01/2004
ADDRESS: 1111111111111111, MI

IN TESTIMONY WHEREOF, I have hereunto set my hand this 27 day of October, 2000.

Signed in the Presence of:

Paul A Clark Kirthivasan Nagarajan
Kirthivasan Nagarajan

STATE OF NY :
COUNTY OF Albany : ss.

On this 27th day of October, 2000, personally appeared before me the above named Kirthivasan Nagarajan to me known and known to me to be the person described in and who executed the foregoing instrument and acknowledged the same to be her free act and deed in and for the purposes set forth in said instrument.

SEAL **PAUL A. CLARK**
Notary Public in the State of New York
Qualified in Albany County No. 01CL6047444
My Commission Expires Aug 29, 2002
Paul A Clark
Notary Public
My Commission Expires: 8/29/02

IN TESTIMONY WHEREOF, I have hereunto set my hand this 15th day of September, 2000.

Signed in the Presence of:

[Signature] James E. Jackson
James E. Jackson

STATE OF :
COUNTY OF : ss.

On this 15th day of September, 2000, personally appeared before me the above named James E. Jackson to me known and known to me to be the person described in and who executed the foregoing instrument and acknowledged the same to be her free act and deed in and for the purposes set forth in said instrument.

SEAL
[Signature]
Notary Public
My Commission Expires: EILEEN J. McLEOD
Notary Public - Ingham County, MI
My Commission Expires April 30, 2004