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OMB No. 0651-0027 (exp. 6/30/2005)

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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):

Robert B. JamesAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:



Assignment



Merger



Security Agreement



Change of Name



Other _____

6/12/03

Execution Date: _____

2. Name and address of receiving party(ies)

Name: **UOP LLC**

Internal Address: _____

Street Address: **25 EAST ALGONQUIN ROAD****P.O. BOX 5017**City: **DES PLAINES** State: **IL** Zip: **60017-5017**Additional name(s) & address(es) attached? ☐ Yes ☒ No

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) _____

10/461,108

B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: **UOP LLC**Internal Address: **ATTN: JOHN G. TOLOMEI**Street Address: **25 EAST ALGONQUIN ROAD****P.O. BOX 5017**City: **DES PLAINES** State: **IL** Zip: **60017-5017**6. Total number of applications and patents involved: **1**7. Total fee (37 CFR 3.41).....\$ **40.00**

Enclosed



Authorized to be charged to deposit account

8. Deposit account number:

21-0600

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9. Signature.

Thomas K. McBride, Jr.*Thomas K. McBride, Jr.***July 3, 2003**

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and documents: **3**Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

CH \$40.00 210600 10461108

ASSIGNMENT☐ U.S. Provisional Application☒ U.S. Utility Patent Application

Attorney Docket No. 104582

WHEREAS, **ROBERT B. JAMES, JR.**, a citizen of THE UNITED STATES OF AMERICA, residing in the City of NORTHBROOK, in the County of COOK and State of ILLINOIS, and hereinafter referred to as "the inventor" has invented certain new and useful improvements in

**PROCESS AND APPARATUS FOR ETHYLBENZENE
PRODUCTION AND TRANSALKYLATION TO XYLENE**

WHEREAS, the inventor hereby authorizes and requests his/her attorney/agent of record to have inserted on each page (where indicated below) the filing date and application number of said application when known; and

WHEREAS, UOP LLC, a company organized and existing under the laws of the State of Delaware having a principal place of business at Des Plaines, Illinois, is desirous of acquiring an interest in and to said application, the inventions disclosed therein, and the Letters Patent of the United States that may be issued thereon.

NOW, THEREFORE in consideration of the sum of One Dollar (\$1.00) and other good and valuable considerations the receipt of which is hereby acknowledged, said inventor does hereby transfer, set over and assign unto said UOP LLC, its successors and assigns, the entire right, title and interest in, to and under said application; the invention(s) covered thereby; any and all resultant patent or patents thereon; any renewals, reissues, extensions, reexaminations, substitutions, continuations, or divisions thereof, and all foreign rights thereunder including all rights to claim any priority in and to the inventions disclosed therein. Inventor hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to said UOP LLC, its successors and assigns.

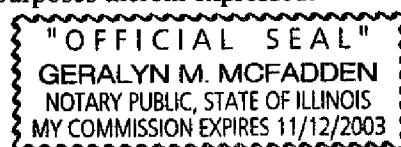
IN WITNESS WHEREOF, the inventor has set his/her signature hereunto on the date specified below.

Robert B. James, Jr. June 12, 2003 June 12, 2003
Robert B. James, Jr. Date Date Executed
Application for Letters Patent

State of Illinois
County of Cook

Before me, on this day, 06-12-03, personally appeared **ROBERT B. JAMES, JR.**, to me personally known, who duly acknowledged the foregoing instrument to be his/her free and voluntary act and deed for the purposes therein expressed.

SEAL



Gerald M. McFadden
Notary Public

Application No. 104 461 108 filed 6-13-03