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PATENTS ONLY

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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):  
**Donald Ross KELSEY - January 19, 1999**  
**Betty Marrou SCARDINO - January 19, 1999**  
**Steven Charles ZRONEK - January 25, 1999**

Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies):

**Shell Oil Company**  
**P. O. Box 2463**  
**900 Louisiana**  
**Houston, Texas 77252-2463**

Additional name(s) & address(es) attached?  Yes  No

3. Nature of Conveyance:

Assignment  Merger  
 Security Agreement  Change of Name  
 Other

Execution Date: **January 19 & 25, 1999**

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). **09/239,900** B. Patent No(s). \_\_\_\_\_

Additional numbers attached?  Yes  No

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

Name: **Donald F. Haas**  
**Shell Oil Company**  
**Intellectual Property**  
**P.O. Box 2463**  
**910 Louisiana**  
**Houston, Texas 77252-2463**

6. Total number of applications and patents involved:

\_\_\_\_\_

7. Total fee (37 CFR 3.41): ..... \$ **40.00**

Enclosed  
 Authorized to be charged to deposit account

8. Deposit account number: **19-1800**

(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.*

**Donald F. Haas** \_\_\_\_\_ **4-19-01**  
Name of Person Signing Signature Date

Total number of pages including cover sheet, attachments, and document: **2**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231 on **4-19-01** by **Jimmy Chua**

Serial No: 09/239,900  
Filing Date: 1/29/99

TH-0781 (US)  
MPH:SEL

ASSIGNMENT

WHEREAS I/we Donald Ross KELSEY, Betty Marrou SCARDINO an Steven Charles ZRONEK  
have invented a certain improvement in PURIFICATION OF 1,3-PROPANEDIOL IN CARBONYL-  
CONTAINING STREAM

WHEREAS I/we have executed an application for Letters Patent in the United States in connection with  
this invention.

WHEREAS, SHELL OIL COMPANY, a Delaware Corporation, is desirous of acquiring all rights to this  
invention in the United States  
NOW THEREFORE for valuable consideration received,  
I/we Donald Ross KELSEY, Betty Marrou SCARDINO an Steven Charles ZRONEK

hereby assign to SHELL OIL COMPANY, its successors and assigns, all rights to this invention in the United  
States of America, including all rights in the above-mentioned application and any patent which may be issued  
thereon in the United States and any other application which may be filed or patent which may be issued in the  
United States.

AND I/we hereby agree that I/we will upon request execute any instrument which SHELL OIL  
COMPANY desires to carry this assignment into effect and perfect the title transferred hereby to prosecute the  
above-mentioned application.

AND the Commissioner of Patents of the United States is hereby authorized to issue Letters Patent of said  
application to the Assignee.

Donald Ross Kelsey  
Donald Ross KELSEY  
January 19, 1999  
(Date)

Edward James Denton  
(Witness)  
Harleen Suzanne Fuller  
(Witness)

Betty Marrou Scardino  
Betty Marrou SCARDINO  
January 19, 1999  
(Date)

Edward James Denton  
(Witness)  
Harleen Suzanne Fuller  
(Witness)

Stu C. Zronek  
Steven Charles ZRONEK  
January 25, 1999  
(Date)

Dave I. Kent  
(Witness)  
Gay Hawkins  
(Date) (Witness)

\_\_\_\_\_  
(Assignor)  
\_\_\_\_\_  
(Date)

\_\_\_\_\_  
(Witness)  
\_\_\_\_\_  
(Date)