

12-09-1998

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U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

Assistant Commissioner for Patents. Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Gary P. Hagen  
Michael J. Spangler

Additional name(s) of conveying party(ies) attached?

☐ yes ☒ no

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

Amoco Corporation  
Law Department  
Mail Code 1907A  
200 East Randolph Drive  
P.O. Box 87703  
Chicago, Illinois 60680-0703

## 3. Nature of Conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other

Execution Date: November 5, 1998

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)

09/190,370

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Amoco Corporation  
Law Department  
Mail Code 1907A  
200 East Randolph Drive  
P.O. Box 87703  
Chicago, Illinois 60680-07036. Total number of applications and patents involved: 

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

☒ Enclosed  
☐ Authorized to be charged to deposit account8. Deposit account number:  
01-0528

(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.*Thomas A. Yassen  
Name of person signing  
Signature11/12/98  
Date

12/08/1998 DNGUYEN 00000317 09190370

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

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PATENT  
REEL: 9619 FRAME: 0091

**Assignment To****Amoco Corporation**

Chicago, Illinois, United States of America

Whereas we,

First inventor	Gary P. Hagen
Post Office Address	1011 Trillium Trail, West Chicago. Illinois 60185
Residence	1011 Trillium Trail, West Chicago. Illinois 60185
Second inventor	Michael J. Spangler
Post Office Address	15565 Crystal Acres Drive, Sandwich, Illinois 60548
Residence	15565 Crystal Acres Drive, Sandwich, Illinois 60548

have invented certain new and useful improvements in

PREPARATION OF POLYOXYMETHYLENE DIMETHYL ETHERS BY CATALYTIC CONVERSION OF DIMETHYL ETHER WITH FORMALDEHYDE FORMED BY OXIDATION OF METHANOL

identified as Hagen and SpanglerAttorney Docket 38,332

and described in an application for patent in the United States of America identified above and executed by us, respectively; and

Whereas, **Amoco Corporation**, a corporation duly organized and existing under the laws of the State of Indiana, U.S.A., and having a principal office and place of business at Chicago, Illinois, U.S.A., desires to record a specific assignment to the entire right, title and interest in and to the above-identified invention or inventions, and in and to any Letters Patent therefor in the United States of America and countries foreign thereto;

Now therefore, in consideration of Ten Dollars (\$10.00) and other good and valuable consideration by each of us received, the receipt of which is hereby acknowledged, we jointly and severally have sold and assigned, and hereby do sell and assign, to said **Amoco Corporation**, its successors and assigns, the entire right, title and interest (a) in the above-identified invention or inventions and all improvements and modifications thereof, (b) in the above-identified application, all provisional and non-provisional applications for patent upon which the above-identified application claims benefit, and all other applications for patent of the United States of America and countries foreign thereto for the above-identified invention or inventions and all improvements and modifications thereof, (c) in all Letters Patent which may issue from said applications in the United States of America and countries foreign thereto, and (d) in all divisions, reissues, continuations, conversions, and extensions of said applications and Letters Patent; and covenant we have the full right so to do; and we hereby authorize and request the Commissioner of Patents and Trademarks to issue all United States Letters Patent on the invention or inventions included herein to said **Amoco Corporation** as assignee of the entire interest.

We further agree that we shall communicate to said **Amoco Corporation**, its successors and assigns, or their representatives or agents all facts and information known or available to us relating to said invention or inventions, improvements and modifications including evidence for interference, reexamination, reissue, opposition, revocation, conversion, extension, or infringement purposes or other legal, judicial or administrative proceedings, whenever

requested; testify in person or by affidavit as required by said **Amoco Corporation**, its successors and assigns, in any such proceeding in the United States of America or a country foreign thereto; execute and deliver, on request, all lawful papers including, but not limited to, original, provisional, non-provisional, divisional, continuation, continuation-in-part, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, declarations, and depositions; and provide all reasonable assistance to **Amoco Corporation**, its successors and assigns, in obtaining and enforcing proper protection for said invention or inventions, improvements and modifications under the intellectual property laws of the United States of America and countries foreign thereto.

In testimony whereof, we have hereunto set our hands and seals, respectively, on the dates set after our respective signatures.

Gary P. Hagen (L.S.), 11-5, 19 98  
Michael J. Spangler (L.S.), 11/5, 19 98

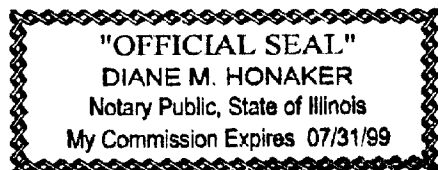
State of Illinois )  
County of DuPage )SS

Before me this 5 day of Nov., 1998, personally appeared each person listed below:

Gary P. Hagen and Michael J. Spangler

each of whom is known to me to be the same person whose name is subscribed to the foregoing instrument, and each of whom acknowledged such instrument was signed, sealed and delivered as that person's free and voluntary act for the uses and purposes set forth therein.

Seal



Diane M. Honaker  
Notary Public