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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)/Execution Date(s):**

Arthur E. BARNES

Execution Date(s) December 17, 2004

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

**3. Nature of conveyance:**

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

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

Name: Landmark Graphics Corporation

Internal Address: \_\_\_\_\_

Street Address: 2101 City West Boulevard

Building 1, Suite 200

City: Houston

State: Texas

Country: US Zip: 77042-3021

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

**4. Application or patent number(s):**

☒ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☐ No

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

Name: Daniel J. Krueger

Internal Address: CONLEY ROSE, P.C.

Street Address: P. O. Box 3267

City: Houston

State: Texas Zip: 77253-3267

Phone Number: (713) 238-8000

Fax Number: (713) 238-8008

Email Address: dkrueger@conleyrose.com

**6. Total number of applications and patents involved:** 1

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40**

- ☐ Authorized to be charged by credit card  
☒ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

**8. Payment Information**

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number 03-2769

Authorized User Name Daniel J. Krueger

**9. Signature:**

Signature

December 20, 2004

Date

Daniel J. Krueger  
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 3

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

**PATENT**  
**REEL: 016115 FRAME: 0874**

ASSIGNMENT

IN CONSIDERATION OF TEN DOLLARS (\$10.00) cash in hand paid to me by **LANDMARK GRAPHICS CORPORATION**, the receipt and sufficiency of which are hereby acknowledged, I, **Arthur E. BARNES** ("ASSIGNOR"), having made an invention in "**A FAULT FILTER FOR SEISMIC DICONINUITY DATA**", while in the employ either as an employee or consultant of **LANDMARK GRAPHICS CORPORATION**, a corporation organized and existing under the laws of the State of Delaware, doing business at Houston, Texas (sometimes hereinafter called "ASSIGNEE"), does hereby ASSIGN, SELL and CONVEY to said **LANDMARK GRAPHICS CORPORATION** its successors and assigns, the entire right, title and interest throughout the world in and to:

1. Said invention in "**A FAULT FILTER FOR SEISMIC DICONINUITY DATA**";
2. United States of America patent application on said invention, Serial No. \_\_\_\_\_, filed \_\_\_\_\_ Attorney's File No. 2149-00600, entitled "**A FAULT FILTER FOR SEISMIC DICONINUITY DATA**";
3. All applications for patent or like protection on said invention that have now been or may in the future be made by me or my legal representatives, including any continuation, continuation-in-part and any other utility applications that may be based on this invention, whether in the United States of America or any other place anywhere in the world;
4. All patents and like protection that have now been or may in the future be granted on said invention to me or my legal representatives, whether in the United States of America or in any other country or place anywhere in the world;
5. All substitutions for and divisions, continuations, continuations-in-part, renewals, reissues, extensions, and the like of said applications and patents and like grants, including without limitation, those obtained or permissible under past, present and future laws and statutes;

6. All rights of action on account of past, present and future unauthorized use of said invention and for infringement of said patents and like protection;
7. The right in ASSIGNEE to file in its name applications for patents and like protection for said invention in any country or countries foreign to the United States; and
8. All international rights of priority associated with said invention, applications, patents and like protection;

and I covenant that I, and my heirs, legal representatives, assigns, administrators, and executors, will, at the expense of ASSIGNEE, its successors and assigns, execute all papers and perform such other acts as may be reasonably necessary to give ASSIGNEE, its successors and assigns, the full benefit of this Assignment.

EXECUTED at the place and on the date indicated below, opposite my signature.

ASSIGNOR

Date: 12/17/04

Arthur E. Barnes  
Name: **Arthur E. BARNES**

Executed at: Landmark Graphics

THE STATE OF Colorado §

COUNTY OF Douglas §

BEFORE ME, the undersigned authority, on this day personally appeared **Arthur E. BARNES**, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 17 day of December, 2004.

[S E A L]

Karen M. [Signature]  
Notary Public in and for  
the State of Colorado

My Commission Expires:

5/17/2008