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

Paul VAN RIEL and

Hendrik Willem Johan DEBEYE

□ Merger

D Change of Name

Orkin & Hanson, P.C.

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

Yes No

Execution Date: July 20, 2001 and July 23, 2001, respectively

09/817,807, received March 26,2001

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

436 Seventh Avenue

City: Pittsburgh State: PA ZIP: 15219-1818

Internal Address: Webb Ziesenheim Logsdon

Street Address: 700 Koppers Building

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

Tab settings ⇒ ⇒ → ▼

1. Name of conveying party(ies):

3. Nature of conveyance:

□ Security Agreement

A. Patent Application No.(s)

Name: Richard L. Byrne

■ Assignment

□ Other _

08-21-2001

U.S. DEPARTMENT OF COMMERCE T Patent and Trademark Office

101817408

To the Assistant Commissioner for Patents: Please record the attached original documents or copy thereof. 2. Name and address of receiving party(ies) JASON GEOSYSTEMS B.V. Street Address: Plaza Building, Weena 598, NL-3000 BN Rotterdam, The Netherlands City: _ State: Additional name(s) & address(es) attached? □ Yes ⊠ No If this document is being filed together with a new application, the execution date of the application is: B. Patent No.(s) Additional numbers attached? □ Yes ⋈ No 6. Total number of applications and 11 patents involved: 7. Total fee (37 CFR 3.41).....\$ 40.00 ⋈ Enclosed □ Authorized to be charged to deposit account 8. Deposit account number: (Attach triplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE 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. August 8, 2001

> Mail documents to be recorded with required cover sheet information to:
> Assistant Commissioner for Patents, Box Assignments Washington, D.C. 20231

Total number of pages including cover sheet, attachments and document

01 FC:581

08/20/2001 TDIAZ1 00000160 09817807

Name of Person Signing Reg. No. 25,363

PATENT REEL: 012078 FRAME: 0278

ASSIGNMENT

WHEREAS, WE, PAUL VAN RIEL and HENDRIK WILLEM JOHAN DEBEYE, residing in Rotterdam, The Netherlands and Den Haag, The Netherlands, respectively, have invented certain new and useful improvements in METHOD OF ESTIMATING ELASTIC AND COMPOSITIONAL PARAMETERS FROM SEISMIC AND ECHO-ACOUSTIC DATA for which an application for United States Letters Patent was filed on March 26, 2001, bearing Serial No. 09/817,807;

AND, WHEREAS, JASON GEOSYSTEMS B.V., a corporation of The Netherlands, having a place of business at Plaza Building, Weena 598, NL-3000 BN Rotterdam, The Netherlands, hereinafter called the "assignee", is desirous of acquiring the entire right, title, and interest in and to said application and the inventions and improvements therein disclosed.

NOW, THEREFORE, for good and valuable consideration paid to us by said assignee, the receipt of which is hereby acknowledged, we do hereby assign, sell, transfer, and set over unto said assignee the entire right, title and interest in and to said application and the inventious and improvements therein disclosed for the United States and all foreign countries and any Letters Patent which may issue therefor in the United States and all foreign countries and all divisions, reissues, continuations, continuations-in-part, renewals, and/or extensions thereof, said assignee to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, reissues, continuations, continuations-inpart, renewals, and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by us had this assignment not been made.

The Assistant Commissioner for Patents is requested to issue such Letters Patent in accordance herewith. We covenant that we are the lawful owners of the said application, inventions, and improvements, that the same are unencumbered, that no license has been granted to make, use, or vend the said inventions or improvements or any of them, and that we have the full right to make this assignment.

And for the consideration aforesaid, we agree jointly and individually that we will communicate to said assignee or the representatives thereof any facts known to us respecting said inventions and improvements, and will, upon request, but without expense to us, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, continuation-in-part, renewal, and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by said assignee or by counsel for said assignee, to assist or enable said assignee to obtain and enforce full benefits from the rights and interests herein assigned. This assignment shall be binding upon our heirs, executors, administrators, and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of said assignee.

Date 23 July 2001

RECORDED: 08/13/2001

PATENT REEL: 012078 FRAME: 0279