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U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

101243246

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

1. Name of conveying party(ies):

ALi H. Abdallah and Mark S. Beattie

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

3. Nature of conveyance:

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

Execution Date: December 15, 1999

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

Name: W-H Energy Systems, Inc.

Internal Address: _____

Street Address: 10370 Richmond AvenueCity: Houston State: Texas Zip: 77042Additional 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: December 16, 1999

A. Patent Application No(s).

B. Patent No(s).

Additional numbers attached? ☐ Yes ☒ No

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

Name: Lester L. HewittInternal Address: AKIN, GUMP, STRAUSS,
HAUER & FELD, L.L.P.Street Address: 1900 Pennzoil Place, South Tower,
711 LouisianaCity: Houston State: TX Zip: 770026. Total number of applications and patents involved: 17. Total fee (37 C.F.R. § 3.41) \$ 40

- ☒ Enclosed
☐ Authorized to be charged to deposit account

8. Deposit account number:

16-2435

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

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.

Lester L. Hewitt, Reg. No. 25,685

Date

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

01/10/2000 KHARLING 00000091 09469989

03 FC:581

40.00 UP

PATENT
REEL: 010478 FRAME: 0579

ASSIGNMENT

WHEREAS, we, Ali H. Abdallah and Mark S. Beattie, are joint inventors of TECHNIQUE FOR SIGNAL DETECTION USING ADAPTIVE FILTERING IN MUD PULSE TELEMETRY application for United States Letters Patent which is executed of even date herewith; and

WHEREAS, W-H ENERGY SERVICES, INC., a corporation created and existing under and by virtue of the laws of the State of Texas, is desirous of acquiring the entire right, title and interest in and to the aforesaid invention throughout the world, and all right, title and interest in, to and under any and all Letters Patent of the United States and all other countries throughout the world;

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to us in hand paid by W-H ENERGY SERVICES, INC. and for other good and valuable considerations, the receipt of which is hereby acknowledged, we hereby sell, assign, transfer and set over to W-H ENERGY SERVICES, INC., all right, title and interest in and to the said invention throughout the world, and said application for U.S. Letters Patent, and any and all divisions, continuations, reexaminations and reissues thereof, and any and all Letters Patent of the United States and foreign countries which may be granted therefor, the same to be held and enjoyed by W-H ENERGY SERVICES, INC. for its own use and benefit, and for the use and benefit of its successors, assigns, or other legal representatives, to the end of the term or terms for which said Letters Patent of the United States or foreign countries are or may be granted, reexamined or reissued, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States on said invention or resulting from said application and from any and all divisions, continuations, and reissues thereof, to W-H ENERGY SERVICES, INC., as assignee of our entire interest, and hereby covenant that we have the full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith.

And we further hereby covenant and agree that we will, at any time, upon request, execute and deliver any and all papers that may be necessary or desirable to perfect the title of said invention and to such Letters Patent as may be granted therefor, to W-H ENERGY SERVICES, INC., its successors, assigns, or other legal representatives and that if W-H ENERGY SERVICES, INC., its successors, assigns or other legal representatives shall desire to file any divisional or continuation applications or to secure a reexamination or reissue of such Letters Patent, or to file a disclaimer relating thereto, will upon request, sign all papers, make all rightful oaths and do all lawful acts requisite for the filing of such divisional or continuation application, or such application for reissue and the procuring thereof, and for the filing of such disclaimer, without further compensation but at the expense of said assignee, its successors, or other legal representatives.

And we do further covenant and agree that we will, at any time upon request, communicate to W-H ENERGY SERVICES, INC., its successors, assigns or other legal representatives, such facts relating to said invention and Letters Patent or the file history thereof as may be known to us, and testify as to the same in any interference or other

litigation when requested so to do, without further compensation but at the expense of said assignee, its successors, or other legal representatives.

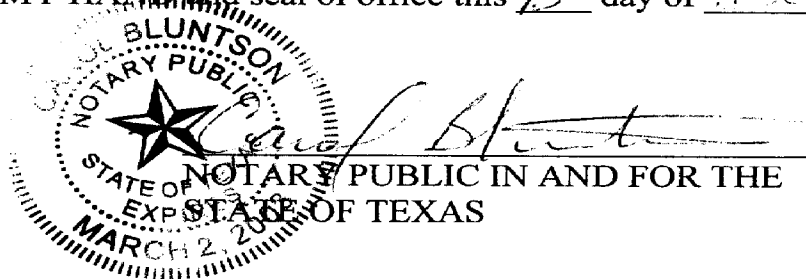
EXECUTED THIS 15 day of December, 1999.

Ali H. Abdallah
ALI H. ABDALLAH

STATE OF TEXAS §
 §
COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared ALI H. ABDALLAH, 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 15th day of December, 1999.



* * * * *

EXECUTED THIS 15 day of December, 1999.

Mark S. Beattie
MARK S. BEATTIE

STATE OF TEXAS §
 §
COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared MARK S. BEATTIE, 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 15th day of December, 1999.

