Client Code: WESTERN.019A	10-29-2001 EET
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FOTHE ASSISTANT COMMISSIONER FL	101889762 al documents or copy thereof.
 Name of conveying party(ies): (If multiple assignor, numerically) 	rs, list 2. Name and address of receiving party(ies):
Duane Bloom, James W. Estep, Rudolph Ernst Krue V, Norman Bruce Moore, Kwang M. Yoo Additional name(s) of conveying party(ies) attached () Yes (X) No	92807-1735 Street Address: Same as above
 3. Nature of conveyance: () Assignment () Merger () Security Agreement 	 4. Application number(s) or Patent number(s): () Application(s) filed herewith Execution Date(s): (X) Patent Application No.: 09/599,071 Filing Date: June 20, 2000
 () Change of Name (X) Other: Corrective Assignment Reel/Frame 011716/0211 Add Inventor Kwang M. Yoo 	() Patent No.: Issue Date:
Execution Date: (If multiple assignors, list execution dates in numerical order corresponding to numbers indica 1 above) January 26, 2001, January 30, 2001, January 26, 2001, January 26, 2001, January 30, 2001	ated in
 Name and address of party to whom correspondence concerning document should be mailed: 	e 7. Total fee (37 CFR 1.21(h)): \$40
Name: Sanjivpal S. Gill KNOBBE, MARTENS. OLSON & BEAR, LLI Customer No. 20,995 Internal Address: Sixteenth Floor	 (X) Enclosed (X) Authorized to be charged to deposit account if any additional fees are required, or to credit any overpayment 8. Deposit account number: 11-1410
 Street Address: 620 Newport Center Drive City: Newport Beach State: CA ZIP: 92660 Attorney's Docket No.: WESTERN.019A 6. Total number of applications and patents involved: 	Please charge this account for any additional fees which may be required, or credit any overpayment to this account.
() Statement and signature	
To the best of my knowledge and belief, the foregoin	ing information is true and correct, and any attached copy is a true copy of the $0/25/01$
Sanjivpal S. Gill Name of Person Signing Signature	0 5. Gill 10/25/01 Date

Name of Person Signing

<u>42,578</u> Registration No.

Total number of pages including cover sheet, attachments and document: 5

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Mail documents to be recorded with required cover sheet information to:

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U.S. Patent and Trademark Office Attn: Assignment Division Crystal Gateway-4 1213 Jefferson Davis Highway, Suite 320 Arlington, VA 22202

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Clienc Code: WESTERN.019A HEET F ASSISTANT COMMISSIONER nal documents or copy thereof. Name and address of receiving party(ies): Name of conveying party(ies): (If multiple assignors, list 2. 1. numerically) Name: Western Well Tool, Inc. Internal Address: 1150 Tustin Avenue, Anaheim, CA Duane Bloom, James W. Estep, Rudolph Ernst Krueger V, Norman Bruce Moore, Kwang Yoo 92807-1735 Street Address: Same as above City: State: ZIP: Additional name(s) of conveying party(ies) attached? ()Yes (X) No Additional name(s) of receiving party(ies) attached? ()Yes (X) No Application number(s) or Patent number(s): 3. Nature of conveyance: 4. Application(s) filed herewith Execution Date(s): ()(X) Assignment () Merger (\mathbf{X}) Patent Application No.: 09/599,071 () Security Agreement () Change of Name Filing Date. June 20, 2000 () Other: ()Patent No .: Execution Date: (If multiple assignors, list execution Issue Date: dates in numerical order corresponding to numbers indicated in Additional numbers attached? () Yes 1 above) January 26, 2001, January 30, 2001, January 26, 2001, January 26, 2001, January 30, 2001 Total fee (37 CFR 3.41): \$40 7. Name and address of party to whom correspondence 5. concerning document should be mailed: (X) Enclosed Authorized to be charged to deposit account if any (X) Sanjivpal S. Gill Name: additional fees are required, or to credit any overpayment KNOBBE, MARTENS, OLSON & BEAR, LLP Customer No. 20,995 -----Deposit account number: 11-1410 8. Internal Address: Sixteenth Floor Street Address: 620 Newport Center Drive Please charge this account for any additional fees which hav City: Newport Beach State: CA ZIP: 92660 be required, or credit any overpayment to this account. Attorney's Docket No. WESTERN 019A

Total number of applications and patents involved: 1 6.

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

4/13/01 Date original document.

Sanjivpal S. Gill Name of Person Signing

Signature S. Gill

42,578 Registration No.

9.

Total number of pages including cover sheet, attachments and document: 5

Mail documents to be recorded with required cover sheet information to:

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U.S. Patent and Trademark Office Attn: Assignment Division Crystal Gateway-4 1213 Jefferson Davis Highway, Suite 320 Arlington, VA 22202

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Application No.: 09/599,071 Filing Date: June 20, 2000

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ASSIGNMENT

WHEREAS, We, Duane Bloom, a California citizen, residing at 627 S. Amboy, Anaheim, CA 92802, Rudolph Ernst Krueger, Texas citizen, residing at 8214 Ryan Park Drive, Houston TX 77095, Bruce Norman Moore, California citizen, residing at 7 Rosy Finch Lane, Aliso Viejo, CA 92656, have invented certain new and useful improvements in a SENSOR ASSEMBLY for which we have filed an application for Letters Patent in the United States, 09/599,071, June 20, 2000:

AND WHEREAS, Western Well Tool, Inc. (hereinafter "ASSIGNEE"), a California Corporation, with its principal place of business at 2946 E. Coronado Street, Anaheim, CA 92806, desires to acquire the entire right, title, and interest in and to the said improvements and the said Application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 26 day of Jan, 200.

COUNTY OF ORANGE SS.

On 1/26/2001, before me, JAMES $(\omega, TAyLoRpersonally appeared Duane Bloom personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are$ subscribed to the within instrument, and acknowledged to me that he executed the same in he authorized capacity(ies), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

00000070 09599071 03/29/2001 TDIAZ1 WITNESS my hand and official seal.

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Anus W.C. Notary Signatu

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 26 day of Jan, 200 Suthern T Rudolph Ernst Krueger STATE OF CALIFORNIA SS. COUNTY OF ORANGE On $\frac{1/26/2001}{2000}$, before me, JAMES W. TAY WR, personally appeared Rudolph Ernst Krueger personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity(ies), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument. and official seal mus W. Carpos JAMES W. TAYLOR COMMISSION #1141744 [SEAL] NOTARY PUBLIC - CALIFORNIA ORANGE COUNTY My Comm. Expires July 9, 2001 IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 26 day of Jam STATE OF CALIFORN IA COUNTY OF ORANGE SS. On $\frac{1/26/2001}{2001}$, before me, $\frac{JAMESW}{TAYLOR}$, personally appeared Bruce Norman Moore personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity(ies), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument. WITNESS my hand and official seal. Emes W Leyb [SEAL] JAMES W. TAYLOR Notary Sig COMMISSION #1141744 NOTARY PUBLIC - CALIFORNIA ORANGE COUNTY W:\DOCS\SSG\SSG-2101.DOC_My Comm. Expires July 9, 2001 103100

ASSIGNMENT

WHEREAS, We, James W. Estep, a United States citizen, residing at 14202 Lake Scene Trail Houston, TX 77070, Kwang M. Yoo, United States citizen, residing at 13911 Cedar Point, Houston, TX 77070, have invented certain new and useful improvements in a SENSOR ASSEMBLY for which we have filed an application for Letters Patent in the United States, 09/599,071, June 20, 2000;

AND WHEREAS, Halliburton Energy Services, Inc. (hereinafter "ASSIGNEE"), a Delaware Corporation, with its principal place of business at 4100 Clinton Drive, Houston, TX 77020-6299, desires to acquire the entire right, title, and interest in and to the said improvements and the said Application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument. We understand that ASSIGNEE will assign all of the aforementioned rights to Western Well Tool, Inc., a California Corporation having offices at 1150 N. Tustin Avenue, Anaheim, CA 92807-1735

AND WE HEREBY covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this <u>30</u> day of <u>January</u>, 20<u>0</u>.

James W. Estep

STATE OF

On 40.302001 before me, <u>Eabbre Froetor</u>, personally appeared James W. Estep personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity(ies), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

SS.

Bellin F. Proctor Notary Signature

[SEAL]

ASSIGNMENT

WHEREAS, We, Duane Bloom, a California citizen, residing at 627 S. Amboy, Anaheim, CA 92802, Rudolph Ernst Krueger, Texas citizen, residing at 8214 Ryan Park Drive, Houston TX 77095, Bruce Norman Moore, California citizen, residing at 7 Rosy Finch Lane, Aliso Viejo, CA 92656, have invented certain new and useful improvements in a SENSOR ASSEMBLY for which we have filed an application for Letters Patent in the United States, 09/599,071, June 20. 2000;

AND WHEREAS, Western Well Tool, Inc. (hereinafter "ASSIGNEE"), a California Corporation, with its principal place of business at 2946 E. Coronado Street, Anaheim, CA 92806, desires to acquire the entire right, title, and interest in and to the said improvements and the said Application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 26 day of <u>Jon</u>, 200.

STATE OF CALIFORNIA COUNTY OF ORANGE SS.

On 1/26/2001, before me, JAMES (W. TAYLOR personally appeared Duane Bloom personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he executed the same in he authorized capacity(ies), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



Anes W. Cay Notary Signature

103100

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 26 day of Jan, 2001
Sutheen I
Rudolph Ernst Krueger
STATE OF CALIFORNIA COUNTY OF ORANGE On 1/26/2001, before me, JAMES W. TAYLOR, personally appeared Rudolph Emst Krueger personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized
capacity(ies), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.
[SEAL] JAMES W. TAYLOR COMMISSION #1141744 NOTARY PUBLIC - CALIFORNIA ORANGE COUNTY My Comm. Expires July 9, 2001
IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 26 day of Jan, 2001 Reference Norman Moore
STATE OF CALIFORNIA COUNTY OF ORANGE SS.
On $1/26/2001$, before me, $TAMES W$. TAGLOR, personally appeared Bruce Norman Moore personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity(ies), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.
WITNESS my hand and official seal.
SEAL] JAMES W. TAYLOR COMMISSION #1141744 NOTARY PUBLIC - CALIFORNIA ORANGE COUNTY W:\DOCS\SSG\SSG-2101.DOC My Comm. Expires July 9, 2001

ASSIGNMENT

WHEREAS, We, James W. Estep, a United States citizen, residing at 14202 Lake Scene Trail Houston, TX 77070, Kwang M. Yoo, United States citizen, residing at 13911 Cedar Point, Houston, TX 77070, have invented certain new and useful improvements in a SENSOR ASSEMBLY for which we have filed an application for Letters Patent in the United States, 09/599,071, June 20, 2000;

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IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 30 day of January, 200

James W. Estep

STATE OF

COUNTY OF

On $\frac{1}{200}$ before me, <u>Bobbre F. Proctor</u>, personally appeared James W. Estep personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity(ies), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

SS.

Bolelin F.

Jotary Signature

PATENT REEL: 012320 FRAME: 0348

[SEAL]

IN TESTIMONY WHEREOF, I hereunto set	my hand and seal this $\frac{30}{20}$ day of $\frac{1}{\sqrt{20}}$ $\frac{1}{\sqrt{20}}$, $20\frac{21}{\sqrt{20}}$
	KA undale Class
	Kwang M. Yoo

STATE OF

COUNTY OF

On $\underline{J0, J001}$, before me, $\underline{B0b1e}$, \underline{F} , $\underline{F0C101}$, personally appeared Kwang M. Yoo personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity(ies), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

ss.

[SEAL]

Police F. thootor

Notary Signature

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