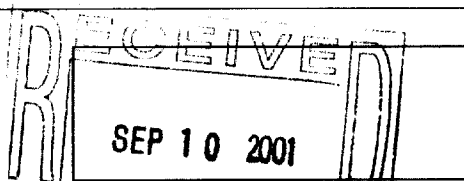


FORM PTO-1619A

09-17-2001



101844802

U.S. Department of Commerce
Patent and Trademark Office

PATENT

Atty. Dkt. No. 1030-16107

RECORDATION FORM COVER SHEET
PATENTS ONLY

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

Submission Type

- ☒ New
- ☐ Resubmission (Non-Recordation)
Document ID #
- ☐ Correction of PTO Error
Reel # Frame #
- ☐ Corrective Document
Reel # Frame #

09/10/01

Conveyance Type

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

U.S. Government

(For Use ONLY by U.S. Government Agencies)

- ☐ Departmental File ☐ Secret File

Conveying Party(ies)

☐ Mark if additional names of conveying parties attached

Name (line 1) Dewey, Charles H.

Execution Date
Month Day Year
08212001

Name (line 2)

Second Party

Name (line 1) Campbell, John E.

Execution Date
Month Day Year
08212001

Name (line 2)

Receiving Party

☐ Mark if additional names of receiving parties attached

Name (line 1) Smith International, Inc.

Name (line 2) A Delaware corporation

Address (line 1) 16740 Hardy Street

Address (line 2)

Address (line 3) Houston Tx 77032
City State/Country Zip Code

- ☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment)

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

09/14/2001 LKELLER 00000125 032769 09060070

01 FC:581

40.00 CH

FOR OFFICE USE ONLY

Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0651-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS.

Mail documents to be recorded with required cover sheet(s) information to:
Commissioner for Patents and Trademarks, Box Assignments, Washington, D.C. 20231

PATENT

REEL: 012155 FRAME: 0580

Correspondence Name and Address

Area Code and Telephone Number (713) 238-8000

Name David A. Rose

Address (line 1) CONLEY, ROSE & TAYON, P. C.

Address (line 2) P. O. Box 3267

Address (line 3) Houston, Texas 77253-3267

Address (line 4)

PAGES

Enter the total number of pages of the attached conveyance document

Including any attachments

5

Application Number(s) or Patent Number(s)

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

09/860,870

Patent Number(s)

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

Patent Cooperation Treaty (PCT)

Enter PCT Application number

PCT

PCT

PCT

Only if a U.S. Application Number

PCT

PCT

PCT

Has not been assigned

Number of Properties

Enter the total number of properties involved. # 1

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41):

\$ 40.00

Method of Payment:

Enclosed ☐Deposit Account ☒

Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number: # 03-2769

Authorization to charge additional fees: Yes ☒ No ☐**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. Charges to deposit account are authorized, as indicated herein.

David A. Rose

Name of Person Signing



Signature

September 7, 2001

Date

ASSIGNMENT

IN CONSIDERATION OF TEN DOLLARS (\$10.00) cash in hand paid to us by Smith International, Inc., the receipt and sufficiency of which are hereby acknowledged, we, **CHARLES H. DEWEY, JOHN E. CAMPBELL**, and **WEI XU** are joint inventors ("ASSIGNORS"), having made an invention in ***WELL REFERENCE APPARATUS AND METHOD***, while in the employ either as an employee or consultant of Smith International, Inc., a corporation organized and existing under the laws of the State of Delaware, doing business at 16740 Hardy Street, Houston, Texas 77032 (sometimes hereinafter called "ASSIGNEE"), do hereby ASSIGN, SELL and CONVEY to said Smith International, Inc. its successors and assigns, the entire right, title and interest throughout the world in and to:

1. Said invention in ***WELL REFERENCE APPARATUS AND METHOD***;
2. United States of America patent application on said invention, Serial No. 09/860,870, filed May 18, 2001, Attorney's File No. 1030-16107, entitled ***WELL REFERENCE APPARATUS AND METHOD***;
3. All applications for patent or like protection on said invention that have now been or may in the future be made by us or our legal representatives, 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 us or our 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

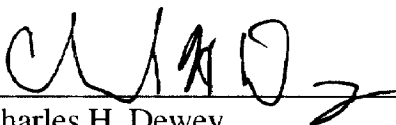
8. All international rights of priority associated with said invention, applications, patents and like protection;

and we covenant that we, and our 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 Houston, Texas on the date indicated below, opposite our signatures.

ASSIGNORS

Date: 8-21-01

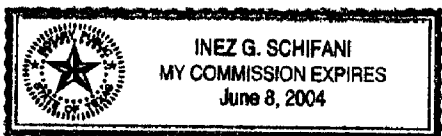

Charles H. Dewey

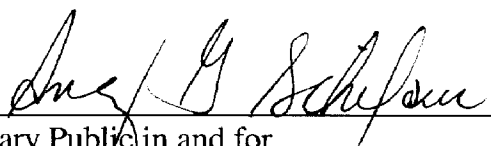
THE STATE OF TEXAS §
 §
COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared **CHARLES H. DEWEY**, 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 21st day of August, 2001.

[S E A L]




Notary Public in and for
the State of T E X A S

My Commission Expires: 6-4-04

Date: 8-21-01

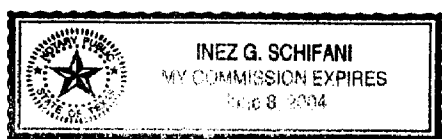
John E. Campbell
John E. Campbell

THE STATE OF TEXAS §
 §
COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared **JOHN E. CAMPBELL**, 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 21st day of August, 2001.

[S E A L]



Inez G. Schifani
Notary Public in and for
the State of TEXAS

My Commission Expires: 6-8-04

Date: 8-21-01

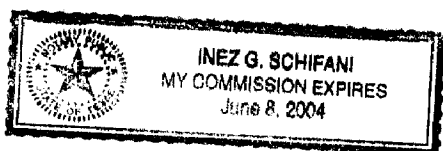
Wei Xu
WEI XU

THE STATE OF TEXAS §
 §
COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared **WEI XU**, 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 21st day of August, 2001.

[S E A L]



Inez G. Schifani
Notary Public in and for
the State of TEXAS

My Commission Expires: 6-8-04

52732.01\1030-16107