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To the Director of the United States Patent and Trademark Office: Please record...

1. Name of conveying party(ies):

James A. Kahkoska
Thomas K. Bohley

Additional names(s) of conveying party(ies) Yes No

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

Name: Fluke Corporation

Internal Address: _____

Street Address: 6920 Seaway Boulevard

City: Everett State: WA ZIP: 98203

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

22141 U.S. PTO
10/699617
103003

3. Nature of conveyance:

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

Execution Date: Oct. 30, 2003

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

10699617

If this document is being filed together with a new application, the execution date of the application is: Oct. 30, 2003

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: James H. Walters

Internal Address: _____

Street Address: Dellett & Walters

Suite 1101, 310 SW 4th Ave.

City: Portland State: OR ZIP: 97204

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):.....\$ 40.00

- Enclosed - Any excess or insufficiency should be credited or debited to deposit account
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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.

James H. Walters, Reg. No. 35,731

Name of Person Signing

Signature

Oct. 30, 2003

Date

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

3

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

Mail Stop Assignment Recordation Services

Director of the United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22303-1450

PATENT

REEL: 014659 FRAME: 0153

ASSIGNMENT

WHEREAS, We, James A. Kahkoska and Thomas K. Bohley, citizens of the United States of America, hereinafter referred to as "Inventors", respectively, whose post office addresses are: 12875 Tahosa Lane, Colorado Springs, Colorado 80908; and 2415 Hodgen Road, Colorado Springs, Colorado 80921; have invented certain new and useful improvements in DIGITAL CABLE TONING APPARATUS AND METHOD as described in an application for Letters Patent of the United States of America, executed by us on the _____ day of _____, 2003. (File No. F-328/0722US).

AND WHEREAS, Fluke Corporation, hereinafter referred to as the "said COMPANY", a corporation duly organized in the State of Washington and having a place of business at 6920 Seaway Boulevard, Everett, Washington 98203 U.S.A., is desirous of acquiring or confirming its acquisition of the entire right, title and interest in and to said invention, inventions or improvements, and in and to said application, and in and to any and all patents, both of the United States and of all foreign countries, that may be obtained therefor;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that We, the Inventors, for good and valuable considerations, the receipt and sufficiency of which We hereby acknowledge, have sold, assigned, transferred and conveyed, and by this assignment do sell, assign, transfer and convey, unto said COMPANY, its successors and assigns, the entire right, title and interest throughout the world, in and to our invention, inventions or improvements described or set forth in said application, in any form or embodiment thereof, and in and to said application, and in and to any applications filed in any foreign country based thereon, including the right to file foreign applications under the provisions of any convention or treaty; and in and to any confirmation, divisional, continuation, continuation-in-part, or substitute application which may be filed on said invention, inventions or improvements in the United States or in any foreign country; and in and to any and all patents, certificates, utility models, reissues, extensions, additions or confirmations thereof which may be granted in the United States or in any foreign country upon said invention, inventions or improvements, TO HAVE AND TO HOLD the same to the full end of the term or terms for which any and all such United States and foreign patents and grants may be issued on said invention, inventions, or improvements.

AND We do hereby authorize and request the issuing authority to issue any and all of said United States and foreign patents on said application or applications to said COMPANY, its successors and assigns, as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of said COMPANY, its successors and assigns.

AND We hereby covenant and warrant that we have full right to convey the entire right, title and interest herein assigned free and clear of all licenses, encumbrances and liens whatsoever, and that we have not executed and will not execute any instruments in conflict herewith.

AND We, for the conditions aforesaid, do hereby covenant and agree to and with the said COMPANY, its successors and assigns, that We, our executors, administrators, or other personal representatives, shall and will do all lawful acts and things, make all rightful oaths, and make, execute, and deliver any and all further applications, papers, power affidavits, assignments, disclaimers and other documents, which in the opinion of counsel for said COMPANY, its successors and assigns, may be required or necessary in this or in any foreign country more

effectually to secure to and vest in said COMPANY, its successors and assigns, the entire right, title and interest in and to said invention, inventions, or improvements, application or applications, patents, rights, titles, benefits, privileges and advantages hereby sold, assigned, confirmed, transferred and conveyed.

IN WITNESS WHEREOF, I, James A. Kahkoska, have hereunto set my hand and seal this 30 day of October, 2003.

James A. Kahkoska
James A. Kahkoska

State of Colorado)
County of El Paso) -SS.

BE IT KNOWN, that on this 30th day of October, 2003, personally appeared James A. Kahkoska, to me known and known to me to be the individual described in and who executed the foregoing assignment and he acknowledged to me that he executed the same.

SEAL



MY COMMISSION EXPIRES:
April 23, 2005

Sandra K. Shute
Notary Public in and for the State of Colorado
Residing in El Paso County
My Commission Expires: _____

IN WITNESS WHEREOF, I, Thomas K. Bohley, have hereunto set my hand and seal this day of 30 October, 2003.

Thomas K. Bohley
Thomas K. Bohley

State of Colorado)
County of El Paso) -SS.

BE IT KNOWN, that on this 30th day of October, 2003, personally appeared Thomas K. Bohley, to me known and known to me to be the individual described in and who executed the foregoing assignment and he acknowledged to me that he executed the same.

SEAL



MY COMMISSION EXPIRES:
April 23, 2005

Sandra K. Shute
Notary Public in and for the State of Colorado
Residing in El Paso County
My Commission Expires: _____