

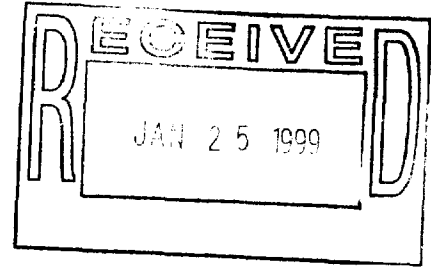
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**KOLISCH  
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01-29-1999



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A Professional Corporation

PATENTS AND TRADEMARKS

January 20, 1999

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**Sir:**

**RECORDATION FORM COVER SHEET  
PATENTS ONLY**

Enclosed for recordation in the records of the U.S. Patent and Trademark Office is an original of a document with particulars as follows:

(1) Name of conveying party:

Paul D. Patterson

(2) Name and address of receiving party:

Protocol Systems, Inc.  
8500 S.W. Creekside Place  
Beaverton, Oregon 97008-7107

(3) The nature of the conveyance is an Assignment Agreement,

which was executed January 20, 1999.

(4) This document is being filed with U.S. Patent Application

Serial No. 09/183,488, which was filed on October 30, 1998.

(5) Any and all correspondence concerning this document should

be addressed and mailed to the following:

( 01/29/1999 DMSUYEH 00000087 09183488  
01 FC:581 40.00 DP )

David P. Cooper  
Kolisch, Hartwell, Dickinson,  
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(6) The total number of patent applications involved in this conveyance is 1.

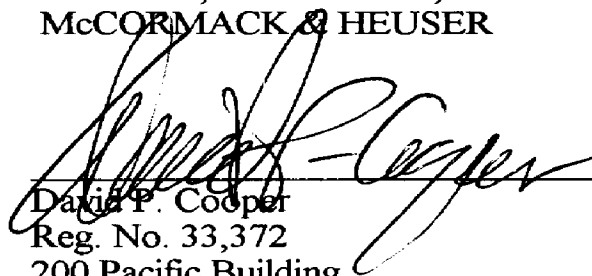
(7) Our check in the amount of \$40.00 to cover the recordation fee is enclosed, in accordance with 37 C.F.R. § 3.41.

(8) Please charge our Deposit Account No. 11-1540 for any additional fees which may be required. A duplicate copy of this form is attached.

(9) 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.

Respectfully submitted,

KOLISCH, HARTWELL, DICKINSON,  
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TOTAL NUMBER OF PAGES  
INCLUDING COVER SHEET,  
ATTACHMENTS AND DOCUMENT: 5

## ASSIGNMENT

WHEREAS, I, Paul D. Patterson, of Portland, County of Multnomah, State of Oregon, have invented certain improvements in a PULSE WIDTH MODULATION VALVE CONTROL FOR VITAL SIGN MONITORS, for which I have executed an application for Letters Patent of the United States which was filed on October 30, 1998 under Application Serial No. 09/183,488.

WHEREAS, Protocol Systems, Inc., an Oregon corporation, having its principal place of business in Beaverton, County of Washington, and State of Oregon, is desirous of acquiring an interest therein:

NOW, THEREFORE, in consideration of the sum of Ten Dollars to me in hand paid, the receipt of which is hereby acknowledged, and for other good and valuable consideration, I the said Paul D. Patterson have sold, assigned and transferred, and by these presents do sell, assign and transfer unto the said Protocol Systems, Inc., the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions in any and all foreign countries and in and to any and all divisions, reissues, continuations and extensions thereof.

I hereby authorize and request the Patent Office officials in the United States and any and all foreign countries to issue any and all of said Letters Patent, when granted, to the said Protocol Systems, Inc., as the assignee of my entire right, title and interest in and to the same, for the sole use of the said Protocol Systems, Inc., its successors and assigns.

Further, I agree that I will communicate to the said Protocol Systems, Inc., or its representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitution, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to the said Protocol Systems, Inc., make all rightful oaths and generally do everything possible to aid the said Protocol Systems, Inc., its successors and assigns, to obtain and enforce proper protection for said invention in the United States and in any and all foreign countries.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 20 day of January, 1999.

Paul P. Patterson  
PAUL D. PATTERSON

Witness:

[Signature]  
(Name)

15829 SW Village Cir  
(Address)

Beverly Hills, Oregon  
(City, State)

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