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To the Honorable Commissioner of Patent:

101824710

attached original documents or copy thereof.

1. Name of conveying party(ies): 8-23-01  
 Paul R. Johannessen  
 Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies):  
 Name: Megapulse Inc.  
 Internal Address: Building No. 7  
 Street Address: 101 Billerica-  
 City: N. Billerica State: MA ZIP: 01862  
 Additional name(s) & address(es) attached?  Yes  No

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other  
 Execution Date: March 19, 2001

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: \_\_\_\_\_  
 A. Patent Application No.(s)  
09/833,022, April 11, 2001  
 B. Patent No.(s)  
 Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
 Name: Robert H. Rines, Esquire  
 Internal Address: Rines and Rines  
 Street Address: 81 North State Street  
 City: Concord State: NH ZIP: 03301

6. Total number of applications and patents involved: 1  
 7. Total fee (37 CFR 3.41):..... \$ 40.00  
 Enclosed  
 Authorized to be charged to deposit account  
 8. Deposit account number: 18-1425  
 (Attach duplicate copy of this page if paying by 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.*  
 Robert H. Rines Robert H. Rines 8/21/01  
 Name of Person Signing Signature Date  
 Total number of pages comprising cover sheet: 2

MB No. 0651-0011 (exp. 4/04)  
 08/28/2001 LMUELLER 00000072 181425 09833022 Do not detach this portion

01 FC:581 40.00 CH  
 Mail documents to be recorded with required cover sheet information to:

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**ASSIGNMENT**

**KNOW ALL MEN BY THESE PRESENTS:**

That Whereas I, **Paul R. Johannessen**, have invented certain improvements in "**METHOD OF AND APPARATUS FOR EXPANDING THE DIGITAL BIT RATE POTENTIAL FOR COMMUNICATION ADDED TO LORAN-C RADIO NAVIGATION PULSE TRAINS AND THE LIKE, WITHOUT AFFECTING THE NAVIGATION CAPABILITY AND INTEGRITY THEREOF**", and have described and claimed the same in an application for Letters Patent of the United States therefor, and filed in the USPTO under date of April 11, 2001 USSN -09/833,022

Whereas, Megapulse, Inc., a corporation duly organized and existing under and by virtue of the laws of the Commonwealth of Massachusetts, and having a principal place of business at 101 Billerica Avenue, Billerica Business Center, Bldg. 4, N. Billerica, MA 01862, hereinafter called the Company, is desirous of acquiring the entire and exclusive right, title and interest of, to and under the said invention, the said application for Letters Patent of the United States and any and all Letters Patent of the United States and of all other countries that may be granted for the said invention;

Now, Therefore, for and in consideration of the sum of One Dollar (\$1.00) and other good and valuable considerations to me paid by the Company, the receipt of which in full is hereby acknowledged, I, the said Paul R. Johannessen, have sold, assigned, transferred and set over and by these presents do hereby sell, assign, transfer and set over unto the company, its respective successors and assigns, the entire and exclusive right, title and interest in, to and under the said invention, the said application for Letters Patent of the United States and all other countries that may be granted for the said invention, and all other patent rights that may be based thereon, including all renewals, divisions, reissues, continuations, and extensions thereof.

To Have, Hold and Enjoy the same to the Company, its successors and assigns, to its and their own use and behoof, to the full end of the term or terms for which the said Letters Patent or other patent rights may be granted, as fully and entirely as the same might have been held and enjoyed by me if no sale or assignment thereof had been made.

And I hereby authorize and request the Commissioner of Patents and Trademarks or other proper governmental authority to issue all Letters Patent or other patent rights for the said invention resulting therefrom to the Company, its successors and assigns, in accordance with this assignment, as assignee of the entire right, title and interest therein and thereto, and covenant that I have full right so to do

And for the considerations aforesaid, I agree that I will communicate to the Company, or its representatives, any facts known to me respecting the said invention, whenever requested, and will testify in any legal proceeding, sign all lawful papers, make all rightful oaths, and generally do everything possible to aid the Company, its successors, assigns and nominees, to obtain and enforce proper patent protection for the said invention in all countries, or to perfect or defend its or their title in the premises.

Witness my hand and seal at Billerica, MA this 9 day of March, 2001

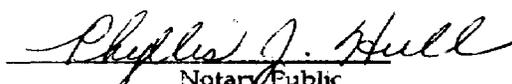
  
Paul R. Johannessen

**ACKNOWLEDGMENT**

Com. of Massachusetts:  
County of *Middlesex*

On this *19* day of March, 2001, before me personally appeared Paul R. Johannessen to me known to be the person described in and who executed the foregoing instrument, and acknowledged that he executed the same as his free act and deed.

SEAL

  
Notary Public

**PHYLLIS J. HULL**  
Notary Public  
My Comm. Expires July 24, 2003