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IN THE UNITED STATES

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OFFICE



In re patent application of )  
 Frederick W. Ryan, Jr. ) Attorney Docket No.: E-928  
 Serial No.: ) Date: December 9, 1999  
 Filed: Concurrently herewith )

Title: SYSTEM AND METHOD FOR PREVENTING DIFFERENTIAL POWER ANALYSIS  
 ATTACKS (DPA) ON A CRYPTOGRAPHIC DEVICE

**RECORDATION OF ASSIGNMENT - NEW PATENT APPLICATION**

Assistant Commissioner for Patents  
 Washington, D.C. 20231

Sir:

Please record the attached original document(s) or copy(ies) in the records of the U.S. Patent and Trademark Office.

|  |   |
|--|---|
| 1. Name of conveying party:<br><br>Frederick W. Ryan, Jr.  | 2. Name of receiving party:<br><br>Pitney Bowes Inc.<br>World Headquarters<br>One Elmcroft Road<br>Stamford, CT 06926-0700        |
| 3. Nature of Conveyance: Assignment<br>Execution Date: November 5, 1999  |   |
| 4. Property Conveyed:<br>This document is being filed together with a new patent application. The execution date of the application is November 9, 1999.   |   |
| 5. Name and address of party to whom correspondence concerning this document should be mailed:<br><br>Charles R. Malandra, Jr.<br>Pitney Bowes Inc.<br>35 Waterview Drive<br>P.O. Box 3000<br>Shelton, CT 06484-8000 | 6. Total Number of Applications: 1<br>7. Total Recordal Fee: \$40.00<br>8. Charge the \$40.00 Fee to Deposit Account No. 16-1885. |

9. Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct, and an attached copy is a true copy of the original document.

Charles R. Malandra, Jr.

December 9, 1999

Total number of pages including this cover sheet: 3

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**PATENT**  
**REEL: 010477 FRAME: 0380**

## ASSIGNMENT

WHEREAS, I, Frederick W. Ryan, Jr. have invented certain new and useful improvements in a **SYSTEM AND METHOD FOR PREVENTING DIFFERENTIAL POWER ANALYSIS ATTACKS (DPA) ON A CRYPTOGRAPHIC DEVICE** identified as File Number **E-928** in the Intellectual Property and Technology Law Department files of the hereinafter-mentioned assignee, and have executed an application for United States Patent based thereon on the 5<sup>th</sup> day of November, 1999;

AND WHEREAS, Pitney Bowes Inc., a corporation organized and existing under the laws of the State of Delaware and having its place of business at 1 Elmcroft Road, Stamford, Connecticut, U.S.A., is desirous of acquiring certain rights thereunder.

NOW, THEREFORE, for one dollar and other good and valuable consideration, receipt of all of which is hereby acknowledged, I have agreed to and hereby sell, assign and transfer unto said corporation the entire right, title and interest, in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto, in and to said invention, said application and any and all patents (including extensions thereof, and all the rights under the International Convention for the Protection of Industrial Property including the right to claim for any foreign patent application the priority date of the corresponding U.S. patent application) of any country, which have been or may be granted on said invention or any part thereof, or on said application or any divisional, continuing, renewal, substitute, reissue or other patent application based in whole or in part thereon, or based upon said invention;


TO BE HELD AND ENJOYED by said corporation, its successors and assigns, to the full ends of the respective terms of which said patents or any of them have been or may be granted, as fully and entirely as the same would have been held and enjoyed by me had no sale and assignment of said interest been made;

AND I do hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America to issue any and all United States patents which may be granted upon said United States application or any of them, or upon said invention or any part thereof, to said corporation;

AND I hereby agree for myself and for my heirs, executors and administrators, to execute without further consideration any further lawful documents and any further assurances, and any divisional, continuing, renewal, substitute, reissue, or other applications for patents of any country, that may be deemed necessary by said corporation fully to secure to said corporation, its interest as aforesaid in and to said invention or any part thereof, and in and to said several patents or any of them;

AND I do hereby covenant for myself and my legal representatives and agree with said corporation, its successors and assigns, that I have granted no right or license to make, use or sell said invention to anyone except said corporation, that, prior to the execution of this deed, my right, title and interest in said invention had not been otherwise encumbered, and that I have not executed and will not execute any instrument in conflict herewith.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal:

  
Frederick W. Ryan, Jr.

11-5-99  
Date

**ACKNOWLEDGMENT**

State of Connecticut )  
                          ) ss. Shelton  
County of Fairfield )

On this 5<sup>th</sup> day of November, 1999, personally appeared before me the above-named Frederick W. Ryan, Jr. to me known and known by me to be the person described in and who executed the foregoing instrument, and subscribed the same in my presence, and acknowledged the same to be his/her free act and deed in and for the purposes set forth in said instrument.

  
NOTARY PUBLIC

DENISE A. HAYES  
NOTARY PUBLIC  
11/05/1999