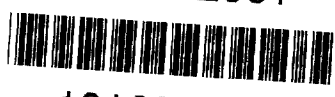
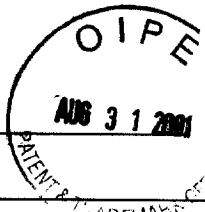


D #

11-09-2001



NL000365

101893163

U.S. Dept. of Commerce  
Patent and Trademark Office

Form PTO 1595  
(Rev. 6-93)

To the Commissioner for Patents: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): P. 31 01  
**PETRUS LAMBERTUS ADRIANUS ROELSE**  
 Additional name(s) of conveying party(ies) attached?  
 Yes  No

2. Name and address of receiving party(ies):  
 Name: KONINKLIJKE PHILIPS ELECTRONICS N.V.  
GROENEWOUDSEWEG 1  
5621 BA, EINDHOVEN

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Terms  
 Other \_\_\_\_\_  
 Execution Date: AUGUST 14 2001

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

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) 09/896,197 B. Patent No.(s) \_\_\_\_\_  
 Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
 Name: Philips Electronics North America Corp.  
 Internal Address: \_\_\_\_\_  
 Street Address: 580 White Plains Road  
 City: Tarrytown State: NY Zip: 10591

6. Total number of applications and patents involved:   
 7. Total fee (37 CFR 3.41) ...\$40.00  
 Enclosed  Authorized to Deposit Account  
 8. Deposit Account Number: 14-1270  
 (Attach duplicate copy of this page paying by deposit account)

DO NOT USE THIS SPACE

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.  
Gregory L. Throne Gregory L. Throne 8/28/01  
 Name of Person Signing Signature Date  
 Total number of pages including cover sheet, attachments, and document: 2

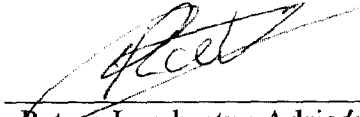
Mail documents to be recorded with required cover sheet information to:  
 Commissioner for Patents  
 Box Assignments  
 Washington, D.C. 20231

09/10/2001 LMKELLER 00000177 141270 09896197  
 01 FC:581 40.00 CH

For good and valuable consideration, of which I acknowledge receipt, I, as a below-named assignor, sell and assign to Koninklijke Philips Electronics N.V. (hereinafter "Assignee") a corporation existing under the laws of the Kingdom of the Netherlands, whose business address is Groenewoudseweg 1, 5621 BA Eindhoven, the Netherlands, its successors and assigns, the application for a United States Patent for the improvements in a "Substitution-box for symmetric-key ciphers" invented by me, which application:

- is executed concurrently herewith
- was executed by me/us on .....
- is Serial No. 09/896197..... filed ... June 29, 2001.....
- is International Application No. ....filed.....,

and all rights in and to said application, and all Patents which may be granted therefor, and all divisions, reissues, continuations and extensions thereof, and authorize and request the Commissioner of Patents and Trademarks to issue all Patents on said improvements or resulting therefrom to said Assignee as assignee of the entire interest and covenant that I have full right so to do, and agree that I will communicate to said Assignee or its representatives any facts known to me respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid said Assignee, its successors, assigns and nominees, to obtain and enforce proper protection for said invention.

August 14, 2001	(sign name here)		, Assignor
Date	(print name here)	Retrus Lambertus Adriagnus ROELSE	