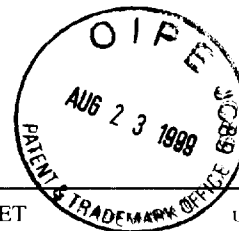


08-26-1999



0500.9904121

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U.S. Department of Commerce

FORM PTO-1595  
(Rev. 6-93)

OMB No. 0651-0011 (exp. 4-94)

**PATENTS ONLY**

**Patent and Trademark Office**

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof.

1. Name of conveying party(ies):  
**Dhanya Thakkar, Jacques Montcalm and Glenn C. Langford**  
Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies):  
Name: **Entrust Technologies Limited**  
Internal Address:  
Street Address: **750 Heron Road, Suite E08**  
City: **Ottawa** State: **Ontario** Zip: **K1V 1A7**  
Additional name(s) & address(es) attached?  Yes  No

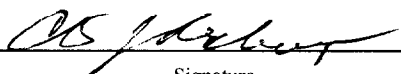
3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
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Execution Date:

4. Application number(s) or registration number(s): **09/343,761**  
If this document is being filed together with a new application, the execution date of the application is:  
A. Patent Application No.(s):  
B. Patent No.(s):  
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6. Total number of applications and patents involved: 1  
7. Total fee (37 C.F.R. 3.41)----- \$ 40.00  
 Enclosed  
 Authorized to be charged to deposit account  
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8. Deposit account number: 50-0746  
(Attach duplicate copy of this page if paying by deposit account)

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: **Christopher J. Reckamp**  
**Markison & Reckamp, P.C.**  
**175 West Jackson Boulevard - Suite 1015**  
City: **Chicago** State: **Illinois** Zip: **60604**

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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.*  
**Christopher J. Reckamp**  8/26/99  
Name of Person Signing, Reg. No. 34,414 Signature Date

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08/24/1999 SDUONG 00090057 09343761  
04 00581 40.00 DP

**ASSIGNMENT OF U.S. PATENT APPLICATION**

This is an assignment of patent rights between the inventors Dhanya Thakkar, Jacques Montcalm and Glenn C. Langford (herein after referred to as the Inventor) and Entrust Technologies Limited having a place of business at 750 Heron Road, Suite E08, Ottawa, Ontario Canada (herein after referred to as the Assignee).

WHEREAS, Inventor has caused to be prepared a United States Patent Application in the Inventor's name entitled Access and Storage of Secure Group Communication Cryptographic Keys having a docket number of 0500.9904121 (herein after referred to as the Patented Invention); and

WHEREAS, Assignee has a desire to acquire all rights, title, and interest in the Patented Invention.


NOW, THEREFORE, the parties agree as follows:


1. The Inventor hereby sells, assigns, and transfers its entire rights, title, and interest in the Patented Invention and all patents that may be granted therefrom due to divisions, reissue, substitutions, extensions, continuations, and continuations-in-part to the Assignee.
2. The Inventor hereby sells, assigns, and transfers its entire rights, title, and interest in any foreign (non U.S.) national patent application, invention registration, or equivalent (Foreign Applications), claiming approximately the same subject matter of the Patented Invention to the Assignee.
3. The transfer set forth in Paragraph (2.) is in consideration for the sum of one dollar (\$1) U.S. (or its equivalent) and/or other consideration for which both parties acknowledge to be valuable, having been conveyed to the Inventor by the Assignee. Consideration may include at least one of: employment, an independent contractor agreement, monetary payment, or other benefit hereby acknowledged as received.
4. Inventor hereby authorizes and requests the Commissioner of Patents and Trademarks to issue the patent for the Patented Invention, and all resulting patents therefrom, insofar as Inventor's interest is concerned, to the Assignee.
5. The Inventor further agrees to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title, and interest in the Assignee.
6. The Inventor hereby further agrees to communicate with the Assignee any facts its knows regarding any improvements of the Patented Invention while employed by Assignee and for one year thereafter.

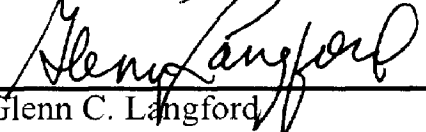
7. The Inventor hereby yet further agrees to, at the expense of the Assignee:
- i) testify in any legal proceedings,
  - ii) sign all lawful papers,
  - iii) execute all divisional, continuation, continuation-in-part, reissue and substitute applications,
  - iv) make all lawful oaths, and assist in vesting title in the Assignee and to aid the Assignee to obtain and enforce proper protection for the subject matter of the Patented Invention in all countries, and
  - v) notify Assignee promptly (by facsimile or first class mail) of any subpoena or contact by any person other than Assignee or its agents regarding the Application or resultant patent(s) issuing therefrom, and in any event at least one week prior to any deposition, legal inquiry or legal proceeding relating to the above identified invention.

This assignment is executed on the date(s) of which the Inventor has signed.

Inventor:

 Aug 13<sup>th</sup> 1999  
 Dhanya Thakkar Date:

 Aug 11<sup>th</sup> / 1999  
 Jacquess Montcalm Date:

 August 17 / 1999  
 Glenn C. Langford Date:

\_\_\_\_\_  
 Date:

\_\_\_\_\_  
 Date:

State/Province of \_\_\_\_\_ ) SS:  
 County of \_\_\_\_\_ )

Before me personally appeared said \_\_\_\_\_ and acknowledged the foregoing instrument to be their free act and deed this \_\_\_\_\_ day of \_\_\_\_\_, 1999.

Seal \_\_\_\_\_  
 (Notary)