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U.S. DEPARTMENT OF COMMERCE

Office

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103592850

To the Honorable Director of the United States Patent and Trademark Office, documents or copy thereof.

1. Name of conveying party(ies):
Marc JOYE

Additional name(s) of conveying party(ies) attached: Yes No

2. Name and address of receiving party(ies):
Name: **THOMSON LICENSING**

Street Address: **1-5 rue Jeanne d'Arc
F-92130 ISSY LES MOULINEAUX, FRANCE**

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

Execution Date: **2/2/2010**

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: **2/2/2010**

A. Patent Application No.(s): **12/661 246**

Additional numbers attached? Yes No X

B. Patent No.(s)

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: **ROBERT D. SHEDD**
Internal Address: **PATENT OPERATIONS
THOMSON LICENSING LLC
SUITE 200**
Street or PO Address: **P. O. Box 5312**
City: **PRINCETON** State: **NEW JERSEY** Zip: **08543-5312**

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:
07-0832

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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.

Jeffrey M. Navon
Name of Person Signing

Signature Reg. No. **32,711**

March 12, 2010
Date

Total number of pages including cover sheet, attachments, and document 3
Total no. of pages above

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Mail documents to be recorded with this sheet to:

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PATENT
REEL: 024138 FRAME: 0647

3/12/10

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTER PATENT

WHEREAS Marc JOYE, 55 avenue de Caradeuc, 35510 CESSON-SEVIGNE, FRANCE, hereinafter referred (collectively) to as the assignor, has invented a certain improvement relating to

FAULT-RESISTANT CALCULATIONS ON ELLIPTIC CURVES

for which said assignor has caused an application for United States Letters Patent to be prepared,

- (X) the inventor's declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the United States Patent and Trademark Office;
- () said application having been filed in the United States Patent and Trademark Office on Serial Number;

AND WHEREAS

**THOMSON LICENSING
1-5 rue Jeanne d'Arc
F-92130 ISSY LES MOULINEAUX
FRANCE**

hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the entire and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

EXECUTED, this 2nd day of February, 2010

WITNESSES:

Signature: [Signature]

Name: BAUDRY Séverine

Address: 19 ave du Père Bourdon
35 700 Rennes

Signature: [Signature]

Name: Apt. 202
Address: 81 Rue d'Antrain
35 700 RENNES

ASSIGNOR:

Signature: [Signature]

Name: Marc JOYE

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