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3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Security Agreement <input type="checkbox"/> Other Execution Date: July 9, 2010 <input type="checkbox"/> Merger <input type="checkbox"/> Change of Name	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): PCT/EP2009/51657 B. Patent No.(s) Additional numbers attached? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> X
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 Street Address: P. O. Box 5312 City: PRINCETON State: NEW JERSEY Zip: 08543-5312	6. Total number of applications and patents involved: <u>1</u> 7. Total Fee (37 CFR 3.41): \$40.00 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: 07-0832

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PATRICIA A. VERLANGIERI
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Patricia A. Verlangieri Aug. 13, 2010
 Signature - Reg. No. 42,201 Date

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ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTER PATENT

WHEREAS MARC JOYE, 55 AVENUE DE CARADEUC, F-35510 CESSON SEVIGNE, FRANCE ; hereinafter referred (collectively) to as the assignor, have invented a certain improvement relating to

AN APPARATUS AND A METHOD FOR CALCULATING A MULTIPLE OF A POINT ON AN ELLIPTIC CURVE

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

- () 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;
- (xx) said application having been filed in the United States Patent and Trademark Office on FEBRUARY 12, 2009 Serial Number PCT/EP2009/051657

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 9 day of July, 2010

WITNESSES:

Signature: [Signature]

Name: DURAND Alain
Address: 7 rue de France
38000 Grenoble

Signature: [Signature]

Name: Sylvain Leclerc
Address: 36 rue des hayettes
35760 Montgermont

ASSIGNOR:

Signature: [Signature]

Name: MARC JOYE