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

<table>
<thead>
<tr>
<th>1. Name of conveying party(ies):</th>
<th>Didier ELBAZ and Jean-Christophe FIDALGO</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. Name and address of receiving party(ies):</td>
<td>Name: GEMPLUS S.A., INC.</td>
</tr>
<tr>
<td>Address: Avenue du Pic de Bertagne</td>
<td>Parc d'Activités de Gémenos</td>
</tr>
<tr>
<td>13881 Gémenos</td>
<td>FRANCE</td>
</tr>
<tr>
<td>Additional name(s) of conveying party(ies) attached?</td>
<td>[ ] Yes [X] No</td>
</tr>
<tr>
<td>Additional name(s) &amp; address(es) attached?</td>
<td>[ ] Yes [X] No</td>
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<td>Other:</td>
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<tr>
<td>Execution Date:</td>
<td>June 21, 2000 and June 20, 2000</td>
</tr>
</tbody>
</table>

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)
   - 09/534,053

   Additional numbers attached? | [ ] Yes [X] No |

5. Name and address of party to whom correspondence concerning document should be mailed:
   - Name: James A. LaBarre
   - Address: BURNS, DOANE, SWECKER & MATHIS, L.L.P.
     P.O. Box 1404
     Alexandria, Virginia 22313-1404

6. Total number of applications and patents involved: | 1 |

7. Total fee (37 CFR § 3.41): | $40.00 |
   - [X] Enclosed
   - [X] Authorized to be charged to deposit account, if necessary

8. Deposit account number:
   - 02-4800

   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.
   - James A. LaBarre, Reg. No. 28,632
   - Name of Person Signing
   - Signature
   - July 18, 2000
   - Date

Total number of pages including cover sheet, attachments, and document: | 3 |

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks
Box Assignments
Washington, D.C. 20231

(07/12/2000 CVORACHA 00000009 09534053)
(02 FC:581 40.00 BP)

PATENT
REEL: 010912 FRAME: 0577
ASSIGNMENT

JOINT

THIS ASSIGNMENT, by Didier ELBAZ residing in Marseilles, France, Jean Christophe FIDALGO residing in Gémenos, France (hereinafter referred to as the assignors), witnesseth:

WHEREAS, said assignors have invented certain new and useful improvements in the Method of fabricating an electronic module or label, module or label obtained and medium including a module or label of this kind set forth in an application for Letters Patent of the United States, bearing Serial No. _____________ and filed on _____________; and

WHEREAS, Gemplus S.A., Inc., a corporation duly organized under and pursuant to the laws of France and having its principal place of business at Avenue du Pic de Bertagne, Parc d'Activités de Gémenos, 13881 Gémenos, France, (hereinafter referred to as the assignee) is desirous of acquiring the entire right, title and interest in and to said inventions and said application for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW, THEREFORE, in consideration of One Dollar ($1.00) and other good and sufficient considerations, the receipt of which is hereby acknowledged, said assignors have sold, assigned, transferred and set over, and by these presents does sell, assign, transfer and set over, unto said assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said assignee, for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignors, had this sale and assignment not been made.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said assignors are the joint and lawful owners of the entire right, title and interest in and to said inventions and the application for Letters Patent above-mentioned, and that the same are unencumbered and that said assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that said assignors will, whenever counsel of said assignee, or the counsel of its successor, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.

AND said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said inventions and the Letters Patent to be issued thereon for the sole use said assignee, its successors, legal representatives and assigns.

21/06/00

Date

Didier ELBAZ