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1. Name of conveying party(ies):

**PHILIPPE CHAMBELIN**

**PATRICE HIRTZLIN**

**JEAN-YVES LE NAOUR**

Additional name(s) of  
conveying party(ies)  
attached:

X No

**10-22-04**

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

Name: **Thomson Licensing S.A.**

Internal Address:

Street Address: **46 Quai A. Le Gallo  
F-92100 Boulogne-Billancourt, France**

3. Nature of conveyance:

X Assignment

Merger

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Execution Date April 28, 2004; May 3, 2004; April 28, 2004, respectively

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X 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):

**US 10/494,983**

B. Patent No.(s)

Additional numbers attached?

Yes

No

X

5. Name and address of party to whom correspondence  
concerning document should be mailed:

Name: **JOSEPH S. TRIPOLI**

Internal Address: **PATENT OPERATIONS  
THOMSON LICENSING INC.**

Street 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

X Authorized to be charged to deposit account

8. Deposit account number:

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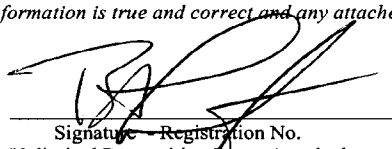
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**BRIAN J. CROMARTY**

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**22 Oct 2004**  
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PATENT  
REEL: 015994 FRAME: 0815

# ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTER PATENT

WHEREAS Philippe CHAMBELIN, 14 rue du Plessix d'Essé, F-35410 Chateaugiron, France, Patrice HIRTZLIN, 3bis rue de la Côte d'Emeraude, F-35830 Betton, France, Jean-Yves LE NAOUR, 1 rue des Badiers, F-35740 Pacé, France; hereinafter (collectively) referred to as the assignor, have invented a certain improvement relating to

## FREQUENCY-SEPARATOR WAVEGUIDE MODULE WITH DOUBLE CIRCULAR POLARIZATION

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 October 24, 2002 Serial Number PCT/EP02/12018 ;

### AND WHEREAS

THOMSON LICENSING, S.A.  
46 quai Alphonse Le Gallo  
F-92100 Boulogne Billancourt  
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 28 day of April, 2004.

WITNESSES:

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Signature: [Signature]

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ASSIGNOR:

Signature: [Signature]

Name: Philippe CHAMBELIN

EXECUTED, this 3<sup>rd</sup> day of May, 2004.

WITNESSES:

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Signature: [Signature]

Name: CHRISTOPHER HANSON  
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FRANCE

ASSIGNOR:

Signature: [Signature]

Name: Patrice HIRTZLIN

EXECUTED, this 28 day of April, 2004.

WITNESSES:

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Name: Penven Jean-Yves  
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Signature: [Signature]

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ASSIGNOR:

Signature: [Signature]

Name: Jean-Yves LE NAOUR