

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT3785196

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	THOMSON LICENSING	12/31/2010
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	GVBB HOLDINGS S.A.R.L.	
<b>Street Address:</b>	412 F, ROUTE D'ESCH	
<b>City:</b>	LUXEMBOURG	
<b>State/Country:</b>	LUXEMBOURG	
<b>Postal Code:</b>	L-2086	
<b>PROPERTY NUMBERS Total: 1</b>		
<b>Property Type</b>	<b>Number</b>	
<b>Application Number:</b>	14542229	
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>		
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>		
<b>Email:</b>	PatentDocket@ArentFox.com	
<b>Correspondent Name:</b>	ARENT FOX LLP	
<b>Address Line 1:</b>	555 WEST FIFTH STREET	
<b>Address Line 2:</b>	48TH FL	
<b>Address Line 4:</b>	LOS ANGELES, CALIFORNIA 90013	
<b>ATTORNEY DOCKET NUMBER:</b>	033163.01787 (004) (PO)	
<b>NAME OF SUBMITTER:</b>	PEGGY OCONNOR	
<b>SIGNATURE:</b>	/peggy oconnor/	
<b>DATE SIGNED:</b>	03/15/2016	
<b>Total Attachments: 7</b>		
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This ASSIGNMENT OF PATENTS (this "Assignment"), effective the 31<sup>st</sup> day of December, 2010, is made and entered into by and between Thomson Licensing, a Société par Actions Simplifiée (S.A.S) company duly organized and existing under the laws of France, registered under the number 383 461 191 with the Commercial and Companies Registry of Nanterre and having its principal office at 1, Rue Jeanne d'Arc, 92443 Issy les Moulineaux, France (the "Assignor"), and GVBB Holdings S.A.R.L., a company duly incorporated and existing under the laws of the Grand-Duché de Luxembourg and having a principal place of business at 412 F, route d'Esch, L-2086 Luxembourg (the "Assignee") (each a "party," and collectively, the "parties"). Capitalized terms used herein but not otherwise defined herein shall have the meanings set forth in the Patent Assignment Agreement (the "PAA").

WHEREAS, Assignor and/or Thomson Affiliates (as defined in the PAA) is the owner of each of the patents and patent applications set forth in Attachment A hereto (the "Assigned Patents");

WHEREAS, Assignor and Assignee entered into that certain PAA, dated as of December 31, 2010, pursuant to which Assignor, on behalf of itself and the Thomson Affiliates, has agreed to assign Assigned Patents to Assignee; and

WHEREAS, the execution and delivery of this Assignment is required by the PAA.

NOW THEREFORE, for good and valuable consideration, including the premises and covenants set forth in the PAA, the receipt and sufficiency of which are hereby acknowledged, the parties hereby agree as follows:

1. Assignment. Assignor, on behalf of itself and the Thomson Affiliates, hereby sells, assigns and transfers to Assignee, and Assignee hereby accepts the sale, assignment and transfer of all right, title and interest throughout the world in and to (i) the Assigned Patents, (ii) patents that issue therefrom, and future patents and patent applications claiming a priority from any of the foregoing, consisting of reissues, reexaminations, divisions, continuations, continuations-in-part, renewals, reexaminations, substitutions, reissues or extensions of the foregoing, and (iii) the right to claim priority from the foregoing.

2. Due Authorization. Assignor hereby authorizes and requests the Commissioner of Patents of the United States and any other official of any applicable Governmental Authority to issue any and all registrations from any and all applications for registration included in the Assigned Patents to and in the name of Assignee.

3. Governing Law. This Assignment shall be governed by, and construed in accordance with, the Laws of the State of New York applicable to contracts executed in and to be performed in that State, without regard to the conflicts of law principles of such State.

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PATENT  
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4. Counterparts. This Assignment may be executed and delivered (including by facsimile transmission) in one or more counterparts, and by the different parties hereto in separate counterparts, each of which when executed shall be deemed to be an original, but all of which taken together shall constitute one and the same agreement.

IN WITNESS WHEREOF, each party has caused this Assignment to be executed by its duly authorized representative.

[ASSIGNOR]

By:   
Name: ALFRED de CASSENOT  
Title: President

[ASSIGNEE]

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

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PATENT  
REEL: 026028 FRAME: 0077

PATENT  
REEL: 037991 FRAME: 0376

ATTACHMENT A

<u>Appln. No.</u>	<u>Filed</u>
10/247,783	September 20, 2002
10/434,461	May 9, 2003
10/518,211	December 16, 2004
10/518,212	December 16, 2004
10/525,921	February 25, 2005
10/527,579	March 11, 2005
10/544,749	August 8, 2005
10/555,850	November 7, 2005
10/595,168	March 16, 2006
11/181,335	July 8, 2005
11/196,077	August 3, 2005
11/401,342	April 10, 2006
11/473,279	June 21, 2006
11/717,344	August 13, 2007
11/809,638	May 31, 2007
11/883,984	August 8, 2007
11/921,913	February 3, 2009
11/986,948	November 27, 2007
11/990,533	February 14, 2008
11/990,571	February 14, 2008
11/990,804	February 21, 2008
12/080,998	April 8, 2008
12/085,130	May 16, 2008
12/225,127	September 15, 2008
12/225,136	September 15, 2008
12/226,248	October 10, 2008
12/227,676	November 24, 2008
12/231,617	September 4, 2008
12/231,728	September 5, 2008
12/308,497	December 16, 2008
12/311,877	April 16, 2009
12/311,917	April 17, 2009
12/312,971	June 2, 2009
12/448,028	June 4, 2009
12/448,461	June 19, 2009
12/448,498	June 22, 2009
12/449,859	August 31, 2009
12/450,125	June 18, 2010
12/450,173	September 14, 2009
12/450,174	September 14, 2009
12/450,537	September 29, 2009
12/450,538	September 29, 2009
12/450,565	September 30, 2009
12/450,671	October 2, 2009

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12/450,688  
12/450,696  
12/450,711  
12/450,747  
12/450,794  
12/450,797  
12/451,571  
12/451,626  
12/451,689  
12/733,076  
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12/733,522  
12/733,874  
12/734,411  
12/734,627  
12/735,475  
12/736,227

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July 20, 2010  
September 20, 2010

Patent No.

D525,964  
5,124,673  
5,157,494  
5,173,948  
5,200,749  
5,235,423  
5,249,039  
5,251,016  
5,268,677  
5,268,734  
5,274,372  
5,280,337  
5,285,283  
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5,351,031  
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5,382,980  
5,386,242  
5,400,081  
5,408,272  
5,432,597

Issued

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July 11, 1995

PATENT  
REEL: 026028 FRAME: 0079

PATENT  
REEL: 037991 FRAME: 0378

5,444,496  
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5,465,144  
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5,986,717  
5,987,187  
5,999,045  
5,999,692  
6,005,701  
6,028,645  
6,034,696  
6,041,675

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PATENT  
REEL: 026028 FRAME: 0080

PATENT  
REEL: 037991 FRAME: 0379

6,044,197  
6,108,035  
6,130,725  
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6,185,621  
6,256,686  
6,259,488  
6,281,930  
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**PATENT**  
**REEL: 026028 FRAME: 0081**

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**REEL: 037991 FRAME: 0380**



7,113,228  
7,116,720  
7,136,105  
7,139,941  
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7,832,868  
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PATENT  
REEL: 026028 FRAME: 0082

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PATENT  
REEL: 037991 FRAME: 0381