

## PATENT ASSIGNMENT

Electronic Version v1.1  
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| SUBMISSION TYPE:                                                                                                                                                                                                                                                                                                                                                                | NEW ASSIGNMENT                          |               |                   |                     |                      |            |                     |                |            |              |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---------------|-------------------|---------------------|----------------------|------------|---------------------|----------------|------------|--------------|------------|
| NATURE OF CONVEYANCE:                                                                                                                                                                                                                                                                                                                                                           | ASSIGNMENT                              |               |                   |                     |                      |            |                     |                |            |              |            |
| CONVEYING PARTY DATA                                                                                                                                                                                                                                                                                                                                                            |                                         |               |                   |                     |                      |            |                     |                |            |              |            |
| <table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>ZHI BO CHEN</td> <td>07/06/2012</td> </tr> <tr> <td>ZHIJIN XIA</td> <td>07/20/2012</td> </tr> <tr> <td>JUN TENG</td> <td>07/13/2012</td> </tr> <tr> <td>KANGYING CAI</td> <td>07/24/2012</td> </tr> </tbody> </table>                                                     |                                         | Name          | Execution Date    | ZHI BO CHEN         | 07/06/2012           | ZHIJIN XIA | 07/20/2012          | JUN TENG       | 07/13/2012 | KANGYING CAI | 07/24/2012 |
| Name                                                                                                                                                                                                                                                                                                                                                                            | Execution Date                          |               |                   |                     |                      |            |                     |                |            |              |            |
| ZHI BO CHEN                                                                                                                                                                                                                                                                                                                                                                     | 07/06/2012                              |               |                   |                     |                      |            |                     |                |            |              |            |
| ZHIJIN XIA                                                                                                                                                                                                                                                                                                                                                                      | 07/20/2012                              |               |                   |                     |                      |            |                     |                |            |              |            |
| JUN TENG                                                                                                                                                                                                                                                                                                                                                                        | 07/13/2012                              |               |                   |                     |                      |            |                     |                |            |              |            |
| KANGYING CAI                                                                                                                                                                                                                                                                                                                                                                    | 07/24/2012                              |               |                   |                     |                      |            |                     |                |            |              |            |
| RECEIVING PARTY DATA                                                                                                                                                                                                                                                                                                                                                            |                                         |               |                   |                     |                      |            |                     |                |            |              |            |
| <table border="1"> <tr> <td>Name:</td> <td>THOMSON LICENSING</td> </tr> <tr> <td>Street Address:</td> <td>1-5 rue Jeanne d'Arc</td> </tr> <tr> <td>City:</td> <td>Issy Les Moulineaux</td> </tr> <tr> <td>State/Country:</td> <td>FRANCE</td> </tr> <tr> <td>Postal Code:</td> <td>F-92130</td> </tr> </table>                                                                  |                                         | Name:         | THOMSON LICENSING | Street Address:     | 1-5 rue Jeanne d'Arc | City:      | Issy Les Moulineaux | State/Country: | FRANCE     | Postal Code: | F-92130    |
| Name:                                                                                                                                                                                                                                                                                                                                                                           | THOMSON LICENSING                       |               |                   |                     |                      |            |                     |                |            |              |            |
| Street Address:                                                                                                                                                                                                                                                                                                                                                                 | 1-5 rue Jeanne d'Arc                    |               |                   |                     |                      |            |                     |                |            |              |            |
| City:                                                                                                                                                                                                                                                                                                                                                                           | Issy Les Moulineaux                     |               |                   |                     |                      |            |                     |                |            |              |            |
| State/Country:                                                                                                                                                                                                                                                                                                                                                                  | FRANCE                                  |               |                   |                     |                      |            |                     |                |            |              |            |
| Postal Code:                                                                                                                                                                                                                                                                                                                                                                    | F-92130                                 |               |                   |                     |                      |            |                     |                |            |              |            |
| PROPERTY NUMBERS Total: 1                                                                                                                                                                                                                                                                                                                                                       |                                         |               |                   |                     |                      |            |                     |                |            |              |            |
| <table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13988338</td> </tr> </tbody> </table>                                                                                                                                                                                                       |                                         | Property Type | Number            | Application Number: | 13988338             |            |                     |                |            |              |            |
| Property Type                                                                                                                                                                                                                                                                                                                                                                   | Number                                  |               |                   |                     |                      |            |                     |                |            |              |            |
| Application Number:                                                                                                                                                                                                                                                                                                                                                             | 13988338                                |               |                   |                     |                      |            |                     |                |            |              |            |
| CORRESPONDENCE DATA                                                                                                                                                                                                                                                                                                                                                             |                                         |               |                   |                     |                      |            |                     |                |            |              |            |
| <p>Fax Number: (609)734-6888<br/> <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 609-734-6828<br/>       Email: uspto@technicolor.com</p> <p>Correspondent Name: ROBERT D. SHEDD, THOMSON LICENSING LLC<br/>       Address Line 1: 2 INDEPENDENCE WAY, SUITE 200<br/>       Address Line 4: PRINCETON, NEW JERSEY 08540</p> |                                         |               |                   |                     |                      |            |                     |                |            |              |            |
| ATTORNEY DOCKET NUMBER:                                                                                                                                                                                                                                                                                                                                                         | PA100040 US PCT                         |               |                   |                     |                      |            |                     |                |            |              |            |
| NAME OF SUBMITTER:                                                                                                                                                                                                                                                                                                                                                              | PATRICIA A. VERLANGIERI                 |               |                   |                     |                      |            |                     |                |            |              |            |
| Signature:                                                                                                                                                                                                                                                                                                                                                                      | /Patricia A. Verlangieri, Reg No 42201/ |               |                   |                     |                      |            |                     |                |            |              |            |

Date:

10/03/2013

Total Attachments: 2

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**ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR  
LETTERS PATENT OF THE UNITED STATES OF AMERICA**

I hereby declare that I am the sole inventor (if only one inventor is named below) or one of \_\_\_\_\_ joint inventors (if plural inventors are named below) of inventions relating to

METHOD FOR ANIMATING CHARACTERS WITH COLLISION AVOIDANCE BASED ON TRACKING INFORMATION

described in an Application filed on \_\_\_\_\_  
November 28, 2011, under Application No. PC/FCH20110883077 and described in the file associated with Docket No. PA100040

For valuable consideration received, I hereby sell, assign and transfer to Thomson Licensing, a corporation duly organized and existing under the laws of the country of France, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions, and all the rights and privileges under any and all Letters Patent that may be granted therefor, and any divisions, continuations, renewals and extensions thereof.

I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful action, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for meeting the thereto in said corporation, its successors, assigns or nominees.

I agree that I will countermand to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible in aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries.

I authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my/our name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may hereafter be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the supposed benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may hereafter be substituted for it.

I covenant with Thomson Licensing, its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

|                     |                                                                                                                 |      |                                                          |
|---------------------|-----------------------------------------------------------------------------------------------------------------|------|----------------------------------------------------------|
| Signed at           | <u>Beijing</u>                                                                                                  | Date | <u>2012/07/20</u>                                        |
| Inventor (1)        | <u>XIA Zhijun</u><br>(Type or Print)                                                                            |      | <u>[Signature]</u><br>(Signature in Full. No initials.)  |
| Post Office Address | <u>8F, Building A TECHNOLOGY FORTUNE CENTER, 8 Xue Qing Road, Hai Dian District, 100192<br/>BEIJING - CHINA</u> |      |                                                          |
| 1st Witness         | <u>Nan Peipei</u><br>(Type or Print)                                                                            |      | <u>Nan Peipei</u><br>(Signature in Full. No initials.)   |
| 2nd Witness         | <u>YU CHENG</u><br>(Type or Print)                                                                              |      | <u>YU CHENG</u><br>(Signature in Full. No initials.)     |
| Signed at           | <u>Shanghai, China</u>                                                                                          | Date | <u>2012/07/13</u>                                        |
| Inventor (2)        | <u>TENG Jun</u><br>(Type or Print)                                                                              |      | <u>Teng Jun</u><br>(Signature in Full. No initials.)     |
| Post Office Address | <u>8F, Building A TECHNOLOGY FORTUNE CENTER, 8 Xue Qing Road, Hai Dian District, 100192<br/>BEIJING - CHINA</u> |      |                                                          |
| 1st Witness         | <u>Nan Peipei</u><br>(Type or Print)                                                                            |      | <u>Nan Peipei</u><br>(Signature in Full. No initials.)   |
| 2nd Witness         | <u>YU CHENG</u><br>(Type or Print)                                                                              |      | <u>YU CHENG</u><br>(Signature in Full. No initials.)     |
| Signed at           | <u>Beijing</u>                                                                                                  | Date | <u>2012/07/24</u>                                        |
| Inventor (3)        | <u>CAI Kangying</u><br>(Type or Print)                                                                          |      | <u>Cai Kangying</u><br>(Signature in Full. No initials.) |
| Post Office Address | <u>8F, Building A TECHNOLOGY FORTUNE CENTER, 8 Xue Qing Road, Hai Dian District, 100192<br/>BEIJING - CHINA</u> |      |                                                          |
| 1st Witness         | <u>Nan Peipei</u><br>(Type or Print)                                                                            |      | <u>Nan Peipei</u><br>(Signature in Full. No initials.)   |
| 2nd Witness         | <u>YU CHENG</u><br>(Type or Print)                                                                              |      | <u>YU CHENG</u><br>(Signature in Full. No initials.)     |

Customer No. 24499

Docket No. PA199048

|                     |                                                                                                         |      |                                  |
|---------------------|---------------------------------------------------------------------------------------------------------|------|----------------------------------|
| Signed at           | Beijing, China                                                                                          | Date | July 15/06                       |
| Inventor (3)        | CHEN Zhibo                                                                                              |      | Chen zhibo                       |
|                     | (Type or Print)                                                                                         |      | (Signature in Full. No initials) |
| Post Office Address | 8F, Building A TECHNOLOGY FORTUNE CENTER, 8 Xue Qing Road, Hai Dian District, 100192<br>BEIJING - CHINA |      |                                  |
| 1st Witness         | Nan Kiper                                                                                               |      | Nan Kiper                        |
|                     | (Type or Print)                                                                                         |      | (Signature in Full. No initials) |
| 2nd Witness         | W CHEN                                                                                                  |      | W CHEN                           |
|                     | (Type or Print)                                                                                         |      | (Signature in Full. No initials) |

After this Assignment has been recorded please RETURN to:

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THOMSON Licensing LLC  
PO Box 5312  
Princeton, NJ 08543-5312

Pat Form Rev. 01/2007