

## PATENT ASSIGNMENT

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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>Shih-Fu Chang</td><td>06/12/2008</td></tr><tr><td>Dongqing Zhang</td><td>05/02/2008</td></tr></tbody></table>	Name	Execution Date	Shih-Fu Chang	06/12/2008	Dongqing Zhang	05/02/2008	
Name	Execution Date						
Shih-Fu Chang	06/12/2008						
Dongqing Zhang	05/02/2008						
RECEIVING PARTY DATA							
Name:	The Trustees Of Columbia University In The City Of New York						
Street Address:	116th Street & Broadway						
City:	New York						
State/Country:	NEW YORK						
Postal Code:	10027						
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>11960424</td></tr></tbody></table>	Property Type	Number	Application Number:	11960424			
Property Type	Number						
Application Number:	11960424						
CORRESPONDENCE DATA							
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ATTORNEY DOCKET NUMBER:	070050.3452						
NAME OF SUBMITTER:	Amanda D. Brown						
Total Attachments: 4 source=Assignment#page1.tif source=Assignment#page2.tif							

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↑ P.R. CHINA

ASSIGNMENT

WHEREAS, WE, **SHIH-FU CHANG**, a citizen of the United States having a post office address at are 560 Riverside Drive, Apt. 20J, New York, NY 10027; **DONGQING ZHANG**, a citizen of ~~United States~~ having a post office address at ~~41B, 417 West 118th Street, New York 10027~~; (hereinafter "**ASSIGNORS**"), have made an invention entitled "**SYSTEM AND METHOD FOR EXTRACTING TEXT CAPTIONS FROM VIDEO AND GENERATING VIDEO SUMMARIES**" as set forth and described in application for Letters Patent of the United States, Application Serial No. 11/960,424, filed December 19, 2007; and

333 Andover Dr. #153, Burbank, CA 91504

WHEREAS, **THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK** (hereinafter "**ASSIGNEE**"), having its principal place of business at 116th Street & Broadway, New York, New York 10027, is desirous of acquiring the whole right, title and interest in and to said Letters Patent and any continuations, divisions, extensions, substitutions, reissues and reexaminations thereof;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that WE, the said **ASSIGNORS**, for and in consideration of the sum of One Dollar (\$1.00), lawful money of the United States, to us in hand paid by said **ASSIGNEE**, and other valuable considerations unto us moving from said **ASSIGNEE**, at or before the ensembling and delivery of these presents, the receipt of which is hereby acknowledged, have sold, assigned, transferred and conveyed and by these presents do sell, assign, transfer and convey, unto said **ASSIGNEE**, its successors and assigns, the entire right, title and interest in and to the said invention entitled "**SYSTEM AND METHOD FOR EXTRACTING TEXT CAPTIONS FROM VIDEO AND GENERATING VIDEO SUMMARIES**" and any and all improvements thereon, and in and to said application and any division, continuation or continuation-in-part thereof, and in and to any Letters Patent of the United States which may be issued on any of said applications, and any reissues thereof, and in and to any and all applications for Letters Patent filed in foreign countries for said invention or improvements including all priority rights, and any and all Letters Patent which may be granted in foreign countries therefor, **TO HAVE AND TO HOLD THE SAME** to the full end of the term or terms for which any and all said Letters Patent may be granted;

AND WE, the said **ASSIGNORS**, do hereby authorize and request the Commissioner of Patents and Trademarks to issue the said Letters Patent of the United States to said **ASSIGNEE**, as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of said **ASSIGNEE**, its successors and assigns;

AND WE, the said **ASSIGNORS**, for the considerations aforesaid, do hereby covenant and agree to and with said **ASSIGNEE**, its successors and assigns, that we have the full power to make this assignment, and that the rights assigned are not encumbered by any grant, license or right heretofore given, and that we, our executors or administrators, shall and will do all lawful acts and things and make, execute and deliver without further compensation, any and all other instruments in writing, further applications, papers, affidavits, powers of attorney, assignments,

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ASSIGNMENT817 West End Ave 10E  
New York - NY 10025

WHEREAS, WE, ~~HEH-FU CHANG~~, a citizen of the United States having a post office address at ~~are 560 Riverside Drive, Apt. 201, New York, NY 10027~~; **DONGQING ZHANG**, a citizen of United States having a post office address at 41B, 417 West 118th Street, New York 10027; (hereinafter "**ASSIGNORS**"), have made an invention entitled "**SYSTEM AND METHOD FOR EXTRACTING TEXT CAPTIONS FROM VIDEO AND GENERATING VIDEO SUMMARIES**" as set forth and described in application for Letters Patent of the United States, Application Serial No. 11/960,424, filed December 19, 2007; and

WHEREAS, **THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK** (hereinafter "**ASSIGNEE**"), having its principal place of business at 116th Street & Broadway, New York New York 10027, is desirous of acquiring the whole right, title and interest in and to said Letters Patent and any continuations, divisions, extensions, substitutions, reissues and reexaminations thereof;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that WE, the said **ASSIGNORS**, for and in consideration of the sum of One Dollar (\$1.00), lawful money of the United States, to us in hand paid by said **ASSIGNEE**, and other valuable considerations unto us coming from said **ASSIGNEE**, at or before the sealing and delivery of these presents, the receipt of which is hereby acknowledged, have sold, assigned, transferred and conveyed and by these presents do sell, assign, transfer and convey, unto said **ASSIGNEE**, its successors and assigns, the entire right, title and interest in and to the said invention entitled "**SYSTEM AND METHOD FOR EXTRACTING TEXT CAPTIONS FROM VIDEO AND GENERATING VIDEO SUMMARIES**" and any and all improvements thereon, and in and to said application and any division, continuation or continuation-in-part thereof, and in and to any Letters Patent of the United States which may be issued on any of said applications, and any reissues thereof, and in and to any and all applications for Letters Patent filed in foreign countries for said invention or improvements including all priority rights, and any and all Letters Patent which may be granted in foreign countries therefor, TO HAVE AND TO HOLD THE SAME to the full end of the term or terms for which any and all said Letters Patent may be granted;

AND WE, the said **ASSIGNORS**, do hereby authorize and request the Commissioner of Patents and Trademarks to issue the said Letters Patent of the United States to said **ASSIGNEE**, as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of said **ASSIGNEE**, its successors and assigns;

AND WE, the said **ASSIGNORS**, for the considerations aforesaid, do hereby covenant and agree to and with said **ASSIGNEE**, its successors and assigns, that we have the full power to make this assignment, and that the rights assigned are not encumbered by any grant, license or right heretofore given, and that we, our executors or administrators, shall and will do all lawful acts and things and make execute and deliver without further compensation, any and all other instruments in writing, further applications, papers, affidavits, powers of attorney, assignments,

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and other documents which, in the opinion of counsel for said ASSIGNEE, its successors and assigns, may be required or necessary more effectively to secure to and vest in said ASSIGNEE, its successors and assigns, the entire right, title and interest in and to said invention and improvements, applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned, transferred and conveyed, and that we will sign any applications for reissue which may be desired by the owner of the patent or patents which may be issued for the said invention or improvements.

Date: \_\_\_\_\_ 2008

Witness: \_\_\_\_\_ [signature]

\_\_\_\_\_ [printed name]

SHIH-FU CHANG

\_\_\_\_\_ [address]

\_\_\_\_\_

Notary Public

Date: 05/02 2008

Witness: [signature] [signature]

RUIDUO YANG [printed name]

[signature]

DONGQING ZHANG

Thomson Inc. [address]

2233 N. Ontario St., Burbank, CA 91504

Notary Public

and other documents which, in the opinion of counsel for said ASSIGNEE, its successors and assigns, may be required or necessary more effectively to secure to and vest in said ASSIGNEE, its successors and assigns, the entire right, title and interest in and to said invention and improvements, applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned, transferred and conveyed, and that we will sign any applications for reissue which may be desired by the owner of the patent or patents which may be issued for the said invention or improvements.

Date: 6/12/08 2008  
Witness: Elsa Sanchez [signature]  
Elsa Sanchez [printed name]  
61 Lynbrook Ave [address]  
Staten Island, NY 10305

[Signature]  
SHIH-FU CHANG

\_\_\_\_\_  
Notary Public

Date: \_\_\_\_\_ 2008  
Witness: \_\_\_\_\_ [signature]  
\_\_\_\_\_ [printed name]  
\_\_\_\_\_ [address]  
\_\_\_\_\_

\_\_\_\_\_  
DONGQING ZHANG

\_\_\_\_\_  
Notary Public