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FORM PTO-1595  
9-21-95  
CUSTOMER NO: 24498

11-08-2005

DEPARTMENT OF COMMERCE  
Patent and Trademark Office



103116033

To the Honorable Assistant Commissioner for Patents: Please

1. Name of conveying party(ies):

CHANDRA MOHAN  
JAMES ZHIMING ZHANG

Additional name(s) of  
conveying party(ies)  
attached: Yes No X

3. Nature of conveyance:

Assignment ☒ Merger  
Security Agreement Change of Name  
Other

Execution Date: January 22, 2004 and February 16, 2004; respectively

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) PCT/US03/36575

Additional numbers attached?

Yes No X

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

Name: ATLINKS USA, Inc.

Internal Address:

Street Address: 10330 N. Meridian Street  
INH-340

City: Indianapolis

State: Indiana

Zip: 46290

Additional name(s) & address(es) 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

☒ Authorized to be charged to deposit account

8. Deposit account number:  
07-0832

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9. Statement and signature.

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.

JOSEPH J. KOLODKA

Name of Person Signing

Signature Reg. No. 39,731

Date

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

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40.00 DA

PATENT  
REEL: 017181 FRAME: 0009

ASSIGNMENT

WHEREAS, ATLINKS USA, Inc. (ATLINKS), a corporation duly organized and existing under the laws of the state of Delaware, USA, having offices at 10330 N. Meridian Street, INH-340, Indianapolis, Indiana 46290-1024, and THOMSON Licensing S.A. (TLSA), a French corporation, having offices at 46, Quai A. Le Gallo, F-92100 Boulogne-Billancourt, France, entered into an agreement calling for the assignment of certain inventions, to TLSA;

NOW THEREFORE, ATLINKS, in consideration of the mutual covenants of said agreement, does hereby assign to TLSA, its successors and assigns, ATLINKS's entire right, title and interest, for all countries and states, in and to, and including any right to claim priority of:

**PCT Application No.: PCT/US2003/036575**

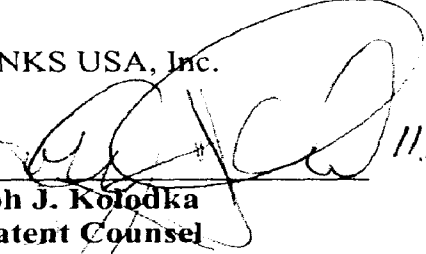
**Filed: 14 November 2003**

and

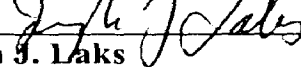
**US Provisional Application No.: 60/427,817**

**Filed: 20 November 2002**

ATLINKS USA, Inc.

BY:  11 April 05  
**Joseph J. Kolodka**  
**Sr. Patent Counsel**  
**Reg. No. 39,731**  
 THOMSON Licensing Inc.  
 An Attorney in Fact for  
 ATLINKS USA, Inc.

THOMSON LICENSING S.A.

BY:  11 April 05  
**Joseph J. Laks**  
**Vice President**  
**Reg. No. 27,914**  
 THOMSON Licensing Inc.  
 An Attorney in Fact for  
 THOMSON Licensing S.A.

NOTARIAL CERTIFICATE

State of New Jersey

:ss

County of Middlesex

I do hereby certify that ATLINKS USA, Inc., having offices at the address listed above, is a corporation organized and existing under the laws of the state of Delaware, USA, and THOMSON Licensing S.A., having offices at the address listed above, is a French corporation, and that **Joseph J. Kolodka** and **Joseph J. Laks**, who both signed the foregoing Assignment, are fully authorized to execute the document on behalf of ATLINKS USA, Inc. and THOMSON Licensing S.A. respectively for this purpose.

Signed and sealed this 11<sup>th</sup> day of April 2005.



Notary Public

NOTARY PUBLIC OF NEW JERSEY

My Commission Expires Feb. 11, 2007

After this Assignment has been recorded please RETURN to:  
 Patent Operations  
 Thomson Licensing Inc.  
 PO Box 5312  
 Princeton, NJ 08543-5312

Rev. 03/2004

ASSIGNMENT AND AGREEMENT

I hereby declare that I am the sole inventor (if only one inventor is named below) or one of 2 joint inventors  
(if plural inventors are named below) of the inventions relating to MULTI-DIMENSIONAL CODING FOR HIGH-DENSITY STORAGE MEDIA  
APPLICATIONS

and described in Docket No PTU020013 and the thereupon-based International (Patent Cooperation Treaty) Application for patent about to be filed or lately filed by said corporation naming me/us as inventor(s).

For valuable consideration received, I hereby sell, assign and transfer to ATLINKS USA, INC., a corporation duly organized and existing under the laws of Delaware, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions and application, and all the rights and privileges under any and all Patents that may be granted therefor, and any divisions, continuations, reissues 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 oaths, 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 vesting title thereto in said corporation, its successors, assigns or nominees.

I agree that I will communicate 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 to 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 henceforth 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 aforesaid 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 henceforth be substituted for it.

I covenant with ATLINKS USA, INC., 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>INDIANAPOLIS, INDIANA USA</u>	Date	<u>01-22-04</u>
Inventor (1)	<u>CHANDRA MOHAN</u> (Type or Print)	<u>Chandramohan</u> (Signature in Full. No initials.)	
Post Office Address	<u>12970 Fleetwood Drive North, Carmel, INDIANA 46032 USA</u>		
1st Witness	<u>Nancy Dawn Boettner</u> (Type or Print)	<u>Nancy Dawn Boettner</u> (Signature in Full. No initials.)	
2nd Witness	<u>Carol Sue Thompson</u> (Type or Print)	<u>Carol Sue Thompson</u> (Signature in Full. No initials.)	
Signed at	<u>INDIANAPOLIS, INDIANA USA</u>	Date	
Inventor (2)	<u>JAMES ZHIMING ZHANG</u> (Type or Print)		
Post Office Address	<u>10854 Belair Drive, Carmel, INDIANA 46080 USA</u>		
1st Witness			
2nd Witness			
Signed at		Date	
Inventor (3)			
Post Office Address			
1st Witness			
2nd Witness			

After this Assignment has been recorded please RETURN to:

Patent Operations  
THOMSON Licensing Inc.  
P. O. Box 5312  
Princeton, NJ 08543-5312

ASSIGNMENT AND AGREEMENT

I hereby declare that I am the sole inventor (if only one inventor is named below) or one of 2 joint inventors  
(if plural inventors are named below) of the inventions relating to MULTI-DIMENSIONAL CODING FOR HIGH-DENSITY STORAGE MEDIA  
APPLICATIONS

and described in Docket No PTU020013 and the thereupon-based International (Patent Cooperation Treaty) Application for patent about to be filed or lately filed by said corporation naming me/us as inventor(s).

For valuable consideration received, I hereby sell, assign and transfer to **ATLINKS USA, INC.**, a corporation duly organized and existing under the laws of Delaware, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions and application, and all the rights and privileges under any and all Patents that may be granted therefor, and any divisions, continuations, reissues 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 oaths, 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 vesting title thereto in said corporation, its successors, assigns or nominees.

I agree that I will communicate 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 to 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 henceforth 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 aforesaid 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 henceforth be substituted for it.

I covenant with **ATLINKS USA, INC.**, 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>INDIANAPOLIS, INDIANA USA</u>	Date	
Inventor (1)	<u>CHANDRA MOHAN</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>12970 Fleetwood Drive North, Carmel, INDIANA 46032 USA</u>		
1st Witness	(Type or Print)		(Signature in Full. No initials.)
2nd Witness	(Type or Print)		(Signature in Full. No initials.)
Signed at	<u>INDIANAPOLIS, INDIANA USA</u>	Date	<u>02-16-2004</u>
Inventor (2)	<u>JAMES ZHIMING ZHANG</u> (Type or Print)		<u>James Zhiming Zhang</u> (Signature in Full. No initials.)
Post Office Address	<u>10854 Belair Drive, Carmel, INDIANA 46030 USA</u>		
1st Witness	<u>Robert Daniel Adams</u> (Type or Print)		<u>Robert Daniel Adams</u> (Signature in Full. No initials.)
2nd Witness	<u>George William De Sain</u> (Type or Print)		<u>George William De Sain</u> (Signature in Full. No initials.)
Signed at		Date	
Inventor (3)	(Type or Print)		(Signature in Full. No initials.)
Post Office Address			
1st Witness	(Type or Print)		(Signature in Full. No initials.)
2nd Witness	(Type or Print)		(Signature in Full. No initials.)

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RECORDED: 05/18/2005

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