

05-17-2002

PTU020003



U.S. DEPARTMENT OF COMMERCE
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05/06/02

To the Honorable Commissioner of Patents and Trademarks: Please

1. Name of conveying party(ies):
1) MICHAEL DAVID ZOLTWOSKI 2) GREGORY JOHN TOMEZAK
3) JAMES VINCENT KROGMEIER 4) CHANDRA MOHAN 5) ZHIMING ZHANG

2. Name and address of receiving party(ies):
Name: THOMSON Licensing S.A.
Internal Address:

Additional name(s) of conveying party(ies) attached: 05/08/02

Street Address: 46 Quai A. Le Gallo
92648 Boulogne, Cedex, France

3. Nature of conveyance:
 Assignment
 Security Agreement
 Other
 Merger
 Change of Name

Execution Date: APRIL 30, 2002 and MAY 3, 2002 Respectively

Additional name(s) & address(es) attached? 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):

B. Patent No.(s) ----

Additional numbers attached?

No

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: JOSEPH S. TRIPOLI
Internal Address: THOMSON multimedia Licensing Inc.
PATENT OPERATIONS

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

Street Address: P. O. BOX 5312

8. Deposit account number:
07-0832

City: PRINCETON State: NEW JERSEY Zip :08543-5312

(Attach duplicate copy of this page if paying by deposit acct)

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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.

Robert B. Levy
Name of Person Signing

[Signature]
Signature

Reg.No.: 28,234

8 May 02
Date

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

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05/16/2002 6TDM11 00000213 070832 10140677

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PATENT

REEL: 012892 FRAME: 0044

**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 5 joint inventors (if plural inventors are named below) of the inventions relating to

DSP-BASED VARIABLE APERTURE CODE GENERATION TECHNIQUE

described in an application for Letters Patent of the United States of America filed on HEREWITH
or, if not identified here by filing date and serial number, executed by me on even date with my execution of this

Assignment/Agreement.

For valuable consideration received, I hereby sell, assign and transfer to THOMSON LICENSING S.A., a corporation duly organized and existing under the laws 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, 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 THOMSON LICENSING S.A., 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>Purdue University</u>	Date	<u>4/30/02</u>
Inventor (1)	<u>Michael David Zaltowski</u> (Type or Print)	<u>Michael David Zaltowski</u> (Signature in Full. No initials.)	
Post Office Address	<u>154 Gibson Ct., West Lafayette, Indiana 47906</u>		
1st Witness	<u>WASEEM AHMAD SHEIKH</u> (Type or Print)	<u>Waseem Ahmad Sheikh</u> (Signature in Full. No initials.)	
2nd Witness	<u>MANUEL APPAEZ</u> (Type or Print)	<u>Manuel Appaez</u> (Signature in Full. No initials.)	
Signed at	<u>PURDUE UNIVERSITY</u>	Date	<u>5/03/02</u>
Inventor (2)	<u>Gregory John Tomezak</u> (Type or Print)	<u>Gregory John Tomezak</u> (Signature in Full. No initials.)	
Post Office Address	<u>3546 Lakeshore Dr., Waterford, Michigan 48329</u>		
1st Witness	<u>WASEEM AHMAD SHEIKH</u> (Type or Print)	<u>Waseem Ahmad Sheikh</u> (Signature in Full. No initials.)	
2nd Witness	<u>MANUEL APPAEZ</u> (Type or Print)	<u>Manuel Appaez</u> (Signature in Full. No initials.)	
Signed at	<u>Purdue University</u>	Date	<u>4/30/02</u>
Inventor (3)	<u>James Vincent Krogmeier</u> (Type or Print)	<u>James Vincent Krogmeier</u> (Signature in Full. No initials.)	
Post Office Address	<u>122 Circle Lane, Indiana 47906</u>		
1st Witness	<u>WASEEM AHMAD SHEIKH</u> (Type or Print)	<u>Waseem Ahmad Sheikh</u> (Signature in Full. No initials.)	
2nd Witness	<u>MANUEL APPAEZ</u> (Type or Print)	<u>Manuel Appaez</u> (Signature in Full. No initials.)	

After this Assignment has been recorded please RETURN to:

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

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For valuable consideration received, I hereby sell, assign and transfer to THOMSON LICENSING S.A., a corporation duly organized and existing under the laws 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, 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 THOMSON LICENSING S.A., 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>Indanapolis</u>	Date	<u>05/06/02</u>
Inventor (4)	<u>Chandra Mohan</u> (Type or Print)		<u>Chandra Mohan</u> (Signature in Full. No initials.)
Post Office Address	<u>12970 Fleetwood Dr., Carmel, Indiana 46032</u>		
1st Witness	<u>WASEEM AHMAD SHEIKH</u> (Type or Print)		<u>Waseem Ahmad Sheikh</u> (Signature in Full. No initials.)
2nd Witness	<u>MANUEL APRAEZ</u> (Type or Print)		<u>Manuel Apraez</u> (Signature in Full. No initials.)
Signed at	<u>Purdue University</u>	Date	<u>5/03/02</u>
Inventor (5)	<u>Zhiming Zhang</u> (Type or Print)		<u>Zhiming Zhang</u> (Signature in Full. No initials.)
Post Office Address	<u>10854 Belair Dr., Indianapolis, Indiana 46280</u>		
1st Witness	<u>WASEEM AHMAD SHEIKH</u> (Type or Print)		<u>Waseem Ahmad Sheikh</u> (Signature in Full. No initials.)
2nd Witness	<u>MANUEL APRAEZ</u> (Type or Print)		<u>Manuel Apraez</u> (Signature in Full. No initials.)
Signed at	_____	Date	_____
Inventor (6)	_____ (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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