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To the Honorable Commissioner of Patents and Trademarks: Please record _____ documents or copy thereof.

1. Name of conveying party(ies):
**Aram Christian Abajian, Robin Andrew Alexander,
Ken Alan Berkun, Austin David Dahl,
John Anthony DeRosa, Scott Chao-Chueh Lee,
Charles A. Porter, Eric Carl Rehm,
Srinivasan Sudanagunta and
Jonathan Robert Nowitz**
Additional name(s) of conveying party(ies) attached: Yes No

2. Name and address of receiving party(ies):
Name: Thomson Licensing S.A.
Street Address: 46 quai Alphonse Le Gallo
F-92100 Boulogne Billancourt France
City: Boulogne Billancourt State: France Zip:
Additional name(s) & address(es) attached? Yes No

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FINANCE SECTION

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____
Execution Date: Sept. 14, 2001 - Sept. 12, 2001 - Sept. 7, 2001 -
Sept. 7, 2001 - Sept. 15, 2001 - Sept. 29, 2001 - Sept. 19, 2001 -
Sept. 18, 2001 - Sept. 6, 2001 and Sept. 10, 2001 respectively.

Additional name(s) & address(es) attached? Yes No

4. Application number(s) or patent number(s): Serial No. 09/876,942
If this document is being filed together with a new application, the execution date of the application is:
A. Patent Application No.(s) 09/876,942
Additional numbers attached? Yes No

B. Patent No.(s) ----
Additional numbers attached? Yes No

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

DO NOT USE THIS SPACE

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.

Joel M. Fogelson
Name of Person Signing

Joel M. Fogelson
Signature - Reg. No. 43,613

Feb. 27, 2002
Date

Total number of pages including cover sheet: 17

OMB No. 0651-0011 (exp. 4/94)

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04/04/2002 BT0M11 00000206 070832 09876942
01 FC:581 40.00 CH

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 10 joint inventors (if plural inventors are named below) of the inventions relating to METADATA QUALITY IMPROVEMENT PROCESS

described in an application for Letters Patent of the United States of America filed on June 8, 2001 Under Serial No. 09/876,942 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 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, 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.

Form with three inventor sections. Each section includes fields for 'Signed at', 'Date', 'Inventor (1, 2, or 3)', 'Post Office Address', '1st Witness', and '2nd Witness'. Inventor 1: ARAM CHRISTIAN ABAJIAN, Seattle, Washington, dated 14-SEP-01. Inventor 2: ROBIN ANDREW ALEXANDER, Redmond, Washington. Inventor 3: KEN ALAN BERKUN, Seattle, Washington, dated 9-07-01. Each section contains handwritten signatures and printed names.

After this Assignment has been recorded please RETURN to:

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

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Signed at	<u>Seattle, Washington</u>	Date	<u>9/7/01</u>
Inventor (4)	<u>AUSTIN DAVID DAHL</u> (Type or Print)		<u>Austin David Dahl</u> (Signature in Full. No initials.)
Post Office Address	<u>2039 26th Ave. E., Seattle, Washington 98112</u>		
1st Witness	<u>Michael G. Maillon</u> (Type or Print)		<u>Michael G. Maillon</u> (Signature in Full. No initials.)
2nd Witness	<u>Anthony Wiegering</u> (Type or Print)		<u>Anthony Wiegering</u> (Signature in Full. No initials.)
Signed at	<u>Seattle, Washington</u>	Date	<u>9/10/01</u> (<u>9/10/01</u>) ^{De Rosa}
Inventor (5)	<u>JOHN ANTHONY DEROSA</u> (Type or Print)		<u>John Anthony De Rosa</u> (Signature in Full. No initials.)
Post Office Address	<u>1407 6th Ave. W., Seattle, Washington 98119</u>		
1st Witness	<u>Michael G. Maillon</u> (Type or Print)		<u>Michael G. Maillon</u> (Signature in Full. No initials.)
2nd Witness	<u>Diane Brady</u> (Type or Print)		<u>Diane Brady</u> (Signature in Full. No initials.)
Signed at	<u>Seattle, Washington</u>	Date	
Inventor (6)	<u>SCOTT CHAO-CHUEH LEE</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>2031 151st Ave. SE, Bellevue, Washington 98007</u>		
1st Witness	(Type or Print)		(Signature in Full. No initials.)
2nd Witness	(Type or Print)		(Signature in Full. No initials.)

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Signed at	<u>Seattle, Washington</u>	Date	
Inventor (7)	<u>CHARLES A. PORTER</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>810 30th Avenue, Seattle, Washington 98122</u>		
1st Witness			(Signature in Full. No initials.)
2nd Witness			(Signature in Full. No initials.)
Signed at	<u>Seattle, Washington</u>	Date	<u>18 Sept 2001</u>
Inventor (8)	<u>ERIC CARL REHM</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>353 Wallace Way NE #3, Bainbridge Island, Washington 98110</u>		
1st Witness	<u>Karen Howe</u> (Type or Print)		(Signature in Full. No initials.)
2nd Witness	<u>Nate Hughes</u> (Type or Print)		(Signature in Full. No initials.)
Signed at	<u>Seattle, Washington</u>	Date	<u>Sept 6, 2001</u>
Inventor (9)	<u>SRINIVASAN SUDANAGUNTA</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>913 26th Avenue E., Seattle, Washington 98112</u>		
1st Witness	<u>Karen Howe</u> (Type or Print)		(Signature in Full. No initials.)
2nd Witness	<u>Nate Hughes</u> (Type or Print)		(Signature in Full. No initials.)

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Form with signature lines for Inventor (10) JONATHAN ROBERT NOWITZ, Date 9/10/2001, Post Office Address 2302 NE 92nd Street, Seattle, Washington 98115, and witnesses Diane Brady and Michael G. Martin.

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Signed at	<u>Seattle, Washington</u>	Date	
Inventor (1)	<u>ARAM CHRISTIAN ABAJIAN</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>202 N.W. 43rd Street, Seattle, Washington 98107</u>		
1st Witness			(Signature in Full. No initials.)
2nd Witness			(Signature in Full. No initials.)
Signed at	<u>Seattle, Washington</u>	Date	<u>09/12/01</u>
Inventor (2)	<u>ROBIN ANDREW ALEXANDER</u> (Type or Print)		<u>Robin Andrew Alexander</u> (Signature in Full. No initials.)
Post Office Address	<u>4720 164th Place NE, Redmond, Washington 98052</u>		
1st Witness	<u>MICHELLE ALEXANDER</u> (Type or Print)		<u>Michelle Alexander</u> (Signature in Full. No initials.)
2nd Witness	<u>JAMES WILLIAM TEAGUE II</u> (Type or Print)		<u>James William Teague II</u> (Signature in Full. No initials.)
Signed at	<u>Seattle, Washington</u>	Date	
Inventor (3)	<u>KEN ALAN BERKUN</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>1554 NE 95th Street, Seattle, Washington 98115</u>		
1st Witness			(Signature in Full. No initials.)
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Signed at	<u>Seattle, Washington</u>	Date	
Inventor (4)	<u>AUSTIN DAVID DAHL</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>2039 26th Ave. E., Seattle, Washington 98112</u>		
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2nd Witness			(Signature in Full. No initials.)
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Inventor (5)	<u>JOHN ANTHONY DEROSA</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>1407 6th Ave. W., Seattle, Washington 98119</u>		
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Inventor (7)	<u>CHARLES A. PORTER</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>810 30th Avenue, Seattle, Washington 98122</u>		
1st Witness			(Signature in Full. No initials.)
2nd Witness			(Signature in Full. No initials.)
Signed at	<u>Seattle, Washington</u>	Date	
Inventor (8)	<u>ERIC CARL REHM</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>353 Wallace Way NE #3, Bainbridge Island, Washington 98110</u>		
1st Witness			(Signature in Full. No initials.)
2nd Witness			(Signature in Full. No initials.)
Signed at	<u>Seattle, Washington</u>	Date	
Inventor (9)	<u>SRINIVASAN SUDANAGUNTA</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>913 26th Avenue E., Seattle, Washington 98112</u>		
1st Witness			(Signature in Full. No initials.)
2nd Witness			(Signature in Full. No initials.)

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Princeton, NJ 08543-5312

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 10 joint inventors (if plural inventors are named below) of the inventions relating to METADATA QUALITY IMPROVEMENT PROCESS

described in an application for Letters Patent of the United States of America filed on June 8, 2001 Under Serial No. 09/876,942
 or, if not identified here by filing date and serial number, executed by me on even date with my execution of this

Assignment/Agreement.

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Signed at	<u>Seattle, Washington</u>	Date	
Inventor (10)	<u>JONATHAN ROBERT NOWITZ</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>2302 NE 92nd Street, Seattle, Washington 98115</u>		
1st Witness			(Signature in Full. No initials.)
2nd Witness			(Signature in Full. No initials.)
Signed at		Date	
Inventor (11)			(Signature in Full. No initials.)
Post Office Address			
1st Witness			(Signature in Full. No initials.)
2nd Witness			(Signature in Full. No initials.)
Signed at		Date	
Inventor (12)			(Signature in Full. No initials.)
Post Office Address			
1st Witness			(Signature in Full. No initials.)
2nd Witness			(Signature in Full. No initials.)

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Inventor (1)	<u>ARAM CHRISTIAN ABAJIAN</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>202 N.W. 43rd Street, Seattle, Washington 98107</u>		
1st Witness	(Type or Print)		(Signature in Full. No initials.)
2nd Witness	(Type or Print)		(Signature in Full. No initials.)
Signed at	<u>Seattle, Washington</u>	Date	
Inventor (2)	<u>ROBIN ANDREW ALEXANDER</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>4720 164th Place NE, Redmond, Washington 98052</u>		
1st Witness	(Type or Print)		(Signature in Full. No initials.)
2nd Witness	(Type or Print)		(Signature in Full. No initials.)
Signed at	<u>Seattle, Washington</u>	Date	
Inventor (3)	<u>KEN ALAN BERKUN</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>1554 NE 95th Street, Seattle, Washington 98115</u>		
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Signed at	<u>Seattle, Washington</u>	Date	
Inventor (4)	<u>AUSTIN DAVID DAHL</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>2039 26th Ave. E., Seattle, Washington 98112</u>		
1st Witness			(Signature in Full. No initials.)
2nd Witness			(Signature in Full. No initials.)
Signed at	<u>Seattle, Washington</u>	Date	
Inventor (5)	<u>JOHN ANTHONY DEROSA</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>1407 6th Ave. W., Seattle, Washington 98119</u>		
1st Witness			(Signature in Full. No initials.)
2nd Witness			(Signature in Full. No initials.)
Signed at	<u>Seattle, Washington</u>	Date	
Inventor (6)	<u>SCOTT CHAO-CHUEH LEE</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>2031 151st Ave. SE, Bellevue, Washington 98007</u>		
1st Witness			(Signature in Full. No initials.)
2nd Witness			(Signature in Full. No initials.)

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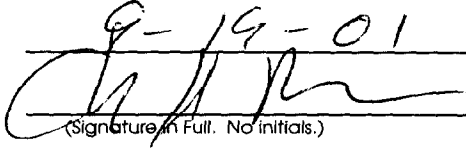
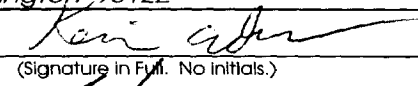
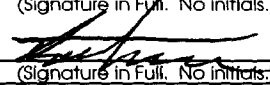
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Signed at	<u>Seattle, Washington</u>	Date	<u>9-19-01</u>
Inventor (7)	<u>CHARLES A. PORTER</u> (Type or Print)	 (Signature in Full. No initials.)	
Post Office Address	<u>810 30th Avenue, Seattle, Washington 98122</u>		
1st Witness	<u>Kevin Adams</u> (Type or Print)	 (Signature in Full. No initials.)	
2nd Witness	<u>Robert Jasper</u> (Type or Print)	 (Signature in Full. No initials.)	
Signed at		Date	
Inventor (8)	<u>ERIC CARL REHM</u> (Type or Print)	(Signature in Full. No initials.)	
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Form with three sections for inventor signatures. Each section includes fields for 'Signed at', 'Date', 'Inventor (10/11/12)', 'Post Office Address', '1st Witness', and '2nd Witness', with instructions for full signatures.

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Signed at	<u>Seattle, Washington</u>	Date	
Inventor (1)	<u>ARAM CHRISTIAN ABAJIAN</u> (Type or Print)	(Signature in Full. No initials.)	
Post Office Address	<u>202 N.W. 43rd Street, Seattle, Washington 98107</u>		
1st Witness	(Type or Print)	(Signature in Full. No initials.)	
2nd Witness	(Type or Print)	(Signature in Full. No initials.)	
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Inventor (2)	<u>ROBIN ANDREW ALEXANDER</u> (Type or Print)	(Signature in Full. No initials.)	
Post Office Address	<u>4720 164th Place NE, Redmond, Washington 98052</u>		
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Post Office Address	<u>2039 26th Ave. E., Seattle, Washington 98112</u>		
1st Witness			(Signature in Full. No initials.)
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Signed at	<u>Seattle, Washington</u>	Date	
Inventor (5)	<u>JOHN ANTHONY DEROSA</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>1407 6th Ave. W., Seattle, Washington 98119</u>		
1st Witness			(Signature in Full. No initials.)
2nd Witness			(Signature in Full. No initials.)
Signed at	<u>Seattle, Washington</u>	Date	<u>9/29/2001</u>
Inventor (6)	<u>SCOTT CHAO-CHUEH LEE</u> (Type or Print)		<u>Scott Chao-Chueh Lee</u> (Signature in Full. No initials.)
Post Office Address	<u>2031 151st Ave. SE, Bellevue, Washington 98007</u>		
1st Witness	<u>Peter Lee</u> (Type or Print)		<u>Peter Lee</u> (Signature in Full. No initials.)
2nd Witness	<u>Hsieh Hung Lee</u> (Type or Print)		<u>Hsieh Hung Lee</u> (Signature in Full. No initials.)

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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 10 joint inventors (if plural inventors are named below) of the inventions relating to METADATA QUALITY IMPROVEMENT PROCESS

described in an application for Letters Patent of the United States of America filed on June 8, 2001 Under Serial No. 09/876,942
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 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, 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>Seattle, Washington</u>	Date	_____
Inventor (7)	<u>CHARLES A. PORTER</u> (Type or Print)		_____ (Signature in Full. No initials.)
Post Office Address	<u>810 30th Avenue, Seattle, Washington 98122</u>		
1st Witness	_____		_____ (Signature in Full. No initials.)
	(Type or Print)		
2nd Witness	_____		_____ (Signature in Full. No initials.)
	(Type or Print)		
Signed at	<u>Seattle, Washington</u>	Date	_____
Inventor (8)	<u>ERIC CARL REHM</u> (Type or Print)		_____ (Signature in Full. No initials.)
Post Office Address	<u>353 Wallace Way NE #3, Bainbridge Island, Washington 98110</u>		
1st Witness	_____		_____ (Signature in Full. No initials.)
	(Type or Print)		
2nd Witness	_____		_____ (Signature in Full. No initials.)
	(Type or Print)		
Signed at	<u>Seattle, Washington</u>	Date	_____
Inventor (9)	<u>SRINIVASAN SUDANAGUNTA</u> (Type or Print)		_____ (Signature in Full. No initials.)
Post Office Address	<u>913 26th Avenue E., Seattle, Washington 98112</u>		
1st Witness	_____		_____ (Signature in Full. No initials.)
	(Type or Print)		
2nd Witness	_____		_____ (Signature in Full. No initials.)
	(Type or Print)		

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Signed at	<u>Seattle, Washington</u>	Date	
Inventor (10)	<u>JONATHAN ROBERT NOWITZ</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>2302 NE 92nd Street, Seattle, Washington 98115</u>		
1st Witness			(Signature in Full. No initials.)
2nd Witness			(Signature in Full. No initials.)
Signed at		Date	
Inventor (11)			(Signature in Full. No initials.)
Post Office Address			
1st Witness			(Signature in Full. No initials.)
2nd Witness			(Signature in Full. No initials.)
Signed at		Date	
Inventor (12)			(Signature in Full. No initials.)
Post Office Address			
1st Witness			(Signature in Full. No initials.)
2nd Witness			(Signature in Full. No initials.)

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