## 505001985 07/13/2018

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5048733

SUBMISSION TYPE:		NEW ASSIGNMENT	NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT			
CONVEYING PARTY D	ΑΤΑ					
		Name	Execution Date			
MICHAEL WEBER			11/05/2015			
JENS BROCKE			11/05/2015			
FRANK GLAESER			11/06/2015			
STEFAN KUBSCH			11/12/2015			
HUILI			11/05/2015			
MICHAEL PIEPER			11/06/2015			
RECEIVING PARTY DA	ТА					
Name:	THOM	SON LICENSING				
Street Address:	1 RUE	JEANNE D'ARC				
	ISSY LES MOULINEAUX					
City:	11221	LES MOULINEAUX				
City: State/Country:	FRAN					
State/Country: Postal Code:	FRAN0 92130	CE				
State/Country: Postal Code: PROPERTY NUMBERS	FRAN0 92130	CE				
State/Country: Postal Code:	FRAN0 92130	CE				
State/Country: Postal Code: PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will b	FRANC 92130 Total: 1	CE 1 Number	IS Mail.			
State/Country: Postal Code: PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will b</i> <i>using a fax number, if</i> Phone: Email:	FRANC 92130 Total: 1	CE Number 16033626 o the e-mail address first; if that is unsucces d; if that is unsuccessful, it will be sent via U (609) 734 6867 pat.verlangieri@technicolor.com	IS Mail.			
State/Country: Postal Code: PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name:	FRANC 92130 Total: 1	CE Number 16033626 o the e-mail address first; if that is unsucces d; if that is unsuccessful, it will be sent via U (609) 734 6867 pat.verlangieri@technicolor.com PATRICIA A. VERLANGIERI, THOMSON LICE	IS Mail.			
State/Country: Postal Code: PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will b</i> <i>using a fax number, if</i> Phone: Email: Correspondent Name: Address Line 1:	FRANC 92130 Total: 1	CE Number 16033626 o the e-mail address first; if that is unsucces d; if that is unsuccessful, it will be sent via U (609) 734 6867 pat.verlangieri@technicolor.com PATRICIA A. VERLANGIERI, THOMSON LICE 4 RESEARCH WAY, 3RD FLOOR PRINCETON, NEW JERSEY 08540	IS Mail.			
State/Country: Postal Code: PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if Phone: Email: Correspondent Name: Address Line 1: Address Line 4:	FRANC 92130 Total: 1	CE Number 16033626 o the e-mail address first; if that is unsucces d; if that is unsuccessful, it will be sent via U (609) 734 6867 pat.verlangieri@technicolor.com PATRICIA A. VERLANGIERI, THOMSON LICE 4 RESEARCH WAY, 3RD FLOOR PRINCETON, NEW JERSEY 08540	IS Mail.			
State/Country: Postal Code: PROPERTY NUMBERS Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will b using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 4: TTORNEY DOCKET NU	FRANC 92130 Total: 1	CE Number 16033626 o the e-mail address first; if that is unsucces d; if that is unsuccessful, it will be sent via U (609) 734 6867 pat.verlangieri@technicolor.com PATRICIA A. VERLANGIERI, THOMSON LICE 4 RESEARCH WAY, 3RD FLOOR PRINCETON, NEW JERSEY 08540 : PD140003-US-CNT	IS Mail.			

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H1\_00305

DECLARATION

Docket No. PD140003

As a below named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of the subject matter which is claimed and for which a patent is sought on the invention antitled

# METHOD AND APPARATUS FOR REARRANGEMENT OF MEDIA DATA USING VISUAL REPRESENTATION OF THE SAME the specification of which was filed on \_\_\_\_\_\_\_\_\_as Application Serial No. \_\_\_\_\_\_\_\_and was amended on

, or, if not identified here by filing date and serial number, is attached hereto. The above-identified application was made or authorized to be made by me.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-inpart applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful felse statements and the like so made are punishable by fine or imprisonment of not more than five (5) years, or both, under 18 USC 1001.

## ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT

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, including India and the United States of America, 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 caths,

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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 orel 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 successora, assigns or nominees to apply for patient or other proper protection for said inventions, and to daim 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, its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, little 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	Hannover/Germany	Date	Nov. 514,2015
Inventor Name	Michael WEBER (Type or Print)		(Signature in Full – No Initials)
Post Office Address	Zikadenweg 9, 30559 HANNOVER, Germa	iny	
1 <sup>st</sup> Witness	Susanne WIRTZ (Type or Print)		(Signature in Full - No initials)
2 <sup>nd</sup> Witness	Cordula RATAJCZAK (Type or Print)		

4-01205

DECLARATION

Docket No. PD140003

As a below named inventor, I hereby declare that:

( believe ) am the original inventor or an original joint inventor of the subject matter which is claimed and for which a patent is sought on the invention artifiled

METHOD AND APPARATUS FOR REARRANGEMENT OF MEDIA DATA USING VISUAL REPRESENTATION OF THE SAME the specification of which was filed on as Application Serial No. end was amended on

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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, 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	Hannover/Germany	Date	Nov. 05, 2015
Inventor Name	Jens BROCKE (Type or Print)		(Signature in Fuli – No Initials)
Post Office Address	Marktstr. 18, 30880 LAATZEN, Germany		
1 <sup>st</sup> Witness	Susanne WIRTZ (Type or Print)		(Signeture in Full – No (Initials)
2 <sup>nd</sup> Witness	Cordula RATAJCZAK (Type or Print)		<u> </u>

44-00365

DECLARATION

Docket No. PD140003

As a below named inventor, I hereby deciare that:

I believe I am the original inventor or an original joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

METHOD AND AFPARATUS FOR REARRANGEMENT OF MEDIA DATA USING VISUAL REPRESENTATION OF THE SAME and was amended on the specification of which was filed on as Application Serial No.

..... , or, if not identified here by filing date and serial number, is attached hereto.

The above-identified application was made or authorized to be made by me.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-inpart applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

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Thereby 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.

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Signed at	Hannover/Germany	Date	Nov. 06 2015
Inventor Name	Frank GLAESER (Type or Print)		(Signature in Full – No Initials)
Post Office Address	Allenweg 4, 30449 HANNOVER, Germany		
1 <sup>st</sup> Witness	Susanne WIRTZ (Type or Print)		(Signature in Full – No Initials)
2 <sup>nd</sup> Witness	Cordula RATAJCZAK (Type or Print)		/ <i>Melton Cite / Novig / Pho</i> 5 (Signature in Full – No Initials)

Customer No. 24498

#### DECLARATION

Dockel No. PD140003

ha oosos

As a below named inventor, I hereby declare that:

i believe I am the original inventor or an original joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitied

METHOD AND APPARATUS FOR REARRANGEMENT OF MEDIA DATA USING VISUAL REPRESENTATION OF THE SAME the specification of which was filed on \_\_\_\_\_\_\_as Application Serial No. \_\_\_\_\_\_\_and was amended on

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Signed at	Hannover/Germany	Date	<u>Kov 1216, 2015</u>
inventor Name	Stefan KUBSCH (Type or Print)		Signature in Full – No Initials)
Post Office Address	Im Ohr 2, 31559 HOHNHORST, Germany		
1 <sup>st</sup> Witness	Susanne WIRTZ (Type or Print)		(Signature in Full – No Initials)
2 <sup>nd</sup> Witness	Cordula RATAJCZAK (Type or Print)		<u> Cone Zancia - Modo y 890 Z</u> (Signature in Pull – No Initials)

HA-66365

### DECLARATION

Docket No. PD140003

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I believe I am the original inventor or an original joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled

METHOD AND APPARATUS FOR REARRANGEMENT OF MEDIA DATA USING VISUAL REPRESENTATION OF THE SAME the specification of which was filed on as Application Serial No. end was amended on

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Signed at	Hannover/Germany	Date	Nov. 5th. 2015
Inventor Name	Hui LI (Type or Print)		(Signature in Full – No Initials)
Post Office Address	Schwarze Worth 40, 30539 HANNOVER, Ge	many	
1 <sup>st</sup> Witness	Susanne WIRTZ (Type or Print)		(Signature in Full – No Initials)
2 <sup>nd</sup> Witness	Cordula RATAJCZAK (Type or Print)		<u>(Ang277 &amp; Node 1990 2</u> (Signature in Pull – No Initials)

DECLARATION

Docket No. PD140003

HA-00305

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Signed at	Hannover/Germany	Date	<u>6,111,2018</u>
Inventor Name	Michael PIEPER (Type or Print)		<u>Ulee Perel</u> Proced (Signature in Full-fyo Initiats)
Post Office Address	Gebrueder-Hartmann-Str. 19, 30659 HAN	NOVER,	Germany
1 <sup>st</sup> Witness	Susanne WIRTZ (Type or Print)		<u>(Signature in Full -(No ipi</u> tials)
2 <sup>nd</sup> Witness	Cordula RATAJCZAK (Type or Print)		<u>(1907) Pa Nolo / 190 î</u> (Signature în Pull – No Initials)

PATENT REEL: 046340 FRAME: 0567

**RECORDED: 07/13/2018**