503108857 12/19/2014 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3155465

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IATURE OF CONVE	YANCE:	A	SSIGNMENT				
CONVEYING PART	Υ DATA						
		Na	ame			Execution	on Date
ANNE D. TATHAM						06/12/201	13
MILTON SANTIAGO) JR.					06/10/201	13
CHRISTOPHER HO	PE					06/10/201	13
RECEIVING PARTY	DATA						
			RICA CORPORAT	ΓΙΟΝ			
Street Address:							
Internal Address:	MAILC	MAILCODE NC1-027-20-05					
City:	CHAR	CHARLOTTE					
State/Country:	NORT	NORTH CAROLINA					
Postal Code:	28255						
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Attenney Docket No : 1044230 PMN: 5683US1

COMBINED DECLARATION (37 CFR 1.63) AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention

DIGITAL IMAGE SHIFTING -

As the berrier named diventor, thereby declare that:

A course

This declaration is directed to:

The attached application, or

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

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

Thereby acknowledge that any widful felse statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

ASSIGNMENT

WHEREAS, 4 Anne D. Tatham ("Assignor"), a citizen of the United States of America, residing in Charlotta, North Carolina nave investigned the above investion. If the following lines are blank, the above application was filed on even date herewith, otherwise, to comply with 37 C.F.R. (3.21 for records) of this assignment, 1, an assignor below, hereby authorize the attorneys for Bank of America to insert the filing date and application number below offer they become known and prior to filing the recordation.

U.S. Application No. 13/917,942 1848 06/14/2013.

WHEREAS, BANK OF AMERICA CORPORATION ("Assignme"), a Corporation duly organized under the laws of the Stare of Delaware, and having its offices and place of business at Charlotte, North Carolina, is desirous of acquiring the entire right, situ and interest in and to the aforesaid inventions and in and to all applications; and Letters Patenethorefor granted in the United States of America, and in any and oil countries foreign thereto:

NOW, THEREFORS, TO WHUM IT MAY CONCERN, be 8 known that, for good and valuable cursideration, incusing satary or payment for the making of inventions, or employee lunefus, the receipt and sufficiency of which is hereby acknowledged, r sald Assignor, by these prosents do sell, assign and transfer unto said Assigning, its successors, assigne and legal representatives, the full and exclusive right, the and interest for the territory of the United States of America and all counciles foreign thereto, and throughout the world and in space, lincluding the right to apply for Lecters Falent in foreign countries in Its own name and to dain, any priority rights for such invelor applications to which such applications are entitled under incrimitional convendions, treatles, or othorwise), in ano to sold inventions and in and to all applications and (accers Parent granted therefor, and all consprovisionals, divisionals, relatuer, reexaminations, contributions, contribution-in-parts and extensions thereof, and in and to all copyrights, trademarks with their ascontated goodwill, trade secrets, confidential information, and compliations, necessary or useful to make, use, or sell the inventions, thereby authorize and request the Commissioner of Patents, and any official whose duty it is to issue patents, to issue all Letters Patent on said inventions or resulting thereform to said Assignme, or its successors and assigns, as assignee of the entire right, title and interest. I represent and warran shat I have full right to agree to, execute, and deliver this assignment. Lagree that I will without further consideration, but at the expense of Acalgane, communicate to said Assignee, or its successors, assigns, or nominees, any and all fails known to me regarding said inventions whenever requested, and that I will exercise all non-provisional, divisional, reliave, rate amination, continuation and continuation-in-part applications, testify in any legal proceedings, sign of lewful popers, make all rightful daths, and generally do everything reasonable for said Assigner, its successors, assigns, and nomices, to obtain and enforce proper patent protocolon for said investorial and encountries.

[Page 1 of 2]

PATENT REEL: 034553 FRAME: 0747

Attorney Docket No.: 104-250 PMN: 5682US1

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore submitted card authorization forms PTO-2038 submitted for payment purposes are not

Date: 6/10/13

LEGAL NAME OF INVENTOR

Inventor<u>Anné D. Yalhan</u> Signature:

COMBINED DECLARATION (37 CFR 1.63) AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) Title of **DIGITAL IMAGE SHIFTING** Invention As the below named inventor, I hereby declare that: This declaration is The attached application, or directed to: United States application or PCT international application number ____ \square filed on ... The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby acknowledge that any willful faise statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. ASSIGNMENT WHEREAS, I. Milton Santiago, Jr. ("Assignor"), a citizen of the United States of America, residing in Chicago, Illinois have invented the above invention. If the following lines are blank, the above application was filed on even date herewith, otherwise, to comply with 37 C.F.R. §3.21 for recordal of this assignment, I, an assignor below, hereby authorize the attorneys for Bank of America to insert the filing date and application number below after they become known and prior to filing the recordation. U.S. Application No. 13/917,942_filed_06/14/2013 WHEREAS, BANK OF AMERICA CORPORATION ("Assignee"), a Corporation duly organized under the laws of the State of Delaware, and having its offices and place of business at Charlotte, North Carolina, is desirous of acquiring the entire right, title and interest in and to the aforesaid inventions and in and to all applications and Letters Patent therefor granted in the United States of America, and in any and all countries foreign thereto: NOW, THEREFORE, TO WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt and sufficiency of which is hereby acknowledged, i said Assignor, by these presents do sell, assign and transfer unto said Assignee, its successors, assigns and legal representatives, the full and exclusive right, title and interest for the territory of the United States of America and all countries foreign thereto, and throughout the world and in space, (including the right to apply for Letters Patent in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treatles, or otherwise), in and to said inventions and in and to all applications and Letters Patent granted therefor, and all non-provisionals, divisionals, reissues, reexaminations, continuations, continuation-in-parts and extensions thereof, and in and to all copyrights, trademarks with their associated goodwill, trade secrets, confidential information, and compilations, necessary or useful to make, use, or sell the inventions. I hereby authorize and request the Commissioner of Patents, and any official whose duty it is to issue patents, to issue all Letters Patent on said inventions or resulting therefrom to said Assignee, or its successors and assigns, as assignee of the entire right, title and interest. I represent and warrant that I have full right to agree to, execute, and deliver this assignment. I agree that I will without further consideration, but at the expense of Assignee, communicate to said Assignee, or its successors, assigns, or nominees, any and all facts known to me regarding said inventions whenever requested, and that I will execute all non-provisional, divisional, reissue, reexamination, continuation and continuation-in-part applications, testify in any legal proceedings, sign all lawful papers, make all rightful paths, and generally do everything reasonable for said Assignee, its successors, assigns, and nominees, to obtain and enforce proper patent protection for said inventions in all countries.

[Page 1 of 2]

PATENT REEL: 034553 FRAME: 0749

Attorney Docket No.: 104-250 PMN: 5682US1

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

and the second	LEGAL NAME OF INVENTOR
and the second	Inventor Milton Santiago, Jr. / Date: 616-20/3
	Signature:
2	

COMBINED DECLARATION (37 CFR 1.63) AND ASSIGNMENT FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)							
Title of DIGITAL IMAGE SHIFTING							
As the below named inventor, I hereby declare that:							
This declaration The attached application, or is directed to:							
United States application or PCT international application number							
The above-identified application was made or authorized to be made by me.							
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.							
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.							
ASSIGNMENT							
WHEREAS, I, Christopher Hope ("Assignor"), a citizen of the United Kingdom , residing in Tonbridge, Kent, United Kingdom have invented the above invention. If the following lines are blank, the above application was filed on even date herewith, otherwise, to comply with 37 C.F.R. §3.21 for recordal of this assignment, I, an assignor below, hereby authorize the attorneys for Bank of America to insert the filing date and application number below after they become known and prior to filing the recordation. U.S. Application No. <u>13/917,9172</u> , filed <u>06/14/2613</u> WHEREAS, BANK OF AMERICA CORPORATION ("Assignee"), a Corporation duly organized under the laws of the State of Delaware, and having its offices and place of business at Charlotte, North Carolina, is desirous of acquiring the entire right, title and interest in and to the aforesaid inventions and in and to all applications and Letters Patent therefor granted in the							
United States of America, and in any and all countries foreign thereto: NOW, THEREFORE, TO WHOM IT MAY CONCERN, be it known that, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt and sufficiency of which is hereby acknowledged, I said Assignor, by these presents do sell, assign and transfer unto said Assignee, its successors, assigns and legal representatives, the full and exclusive right, title and interest for the territory of the United States of America and all countries foreign thereto, and throughout the world and in space, (including the right to apply for Letters Patent in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), in and to said inventions and in and to all applications and Letters Patent granted therefor, and all non-provisionals, divisionals, reissues, reexaminations, continuations, continuation- in-parts and extensions thereof, and in and to all copyrights, trademarks with their associated goodwill, trade secrets, confidential information, and compilations, necessary or useful to make, use, or sell the inventions. I hereby authorize and request the Commissioner of Patents, and any official whose duty it is to issue patents, to issue all Letters Patent on said inventions or resulting therefrom to said Assignee, or its successors and assigns, as assignee of the entire right, title and interest. I represent and warrant that I have full right to agree to, execute, and deliver this assignment. I agree that I will without further consideration, but at the expense of Assignee, communicate to said Assignee, or its successors, assigns, or nominees, any and all facts known to me regarding said inventions whenever requested, and that I will execute all non- provisional, divisional, reissue, reexamination, continuation and continuation-in-part applications, testify in							

Attorney Docket No.: 104-250 PMN: 5682US1

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicity available.

LEGAL NAME OF INVENTOR

Inventor: Christopher Hope

Signature:

<u>Anna 2</u>

Date: 10

[Page 2 of 2]

RECORDED: 12/19/2014