## 504258341 03/06/2017 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4305021

		NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY	( DATA				
		Name	Execution Date		
GREGORY FRANCZ	YK		02/07/2017		
ΤΙΜΟΤΗΥ ΚΙΜ			02/07/2017		
LUCAS D. MASON			02/06/2017		
RECEIVING PARTY	DATA				
Name:	WP COM	WP COMPANY LLC DBA THE WASHINGTON POST			
Street Address:	1301 K S	STREET			
City:	WASHIN	IGTON			
State/Country:	D.C.	D.C.			
Postal Code:	20071				
Property Type       Application Number:     152		<b>Number</b> 5221291			
CORRESPONDENC	E DATA				
CORRESPONDENC Fax Number: <i>Correspondence wi</i>	E DATA ( Il be sent to	703)816-4100 <b>the e-mail address first; if that is</b>			
CORRESPONDENC Fax Number: <i>Correspondence wi</i> <i>using a fax number</i>	E DATA ( Il be sent to , if provided;	703)816-4100			
CORRESPONDENC Fax Number: <i>Correspondence wi</i> <i>using a fax number</i> Phone: Email:	E DATA ( <i>II be sent to</i> , <i>if provided;</i> 7	703)816-4100 the e-mail address first; if that is if that is unsuccessful, it will be 03-816-4000 yunker@nixonvan.com			
CORRESPONDENC Fax Number: <i>Correspondence wi using a fax number</i> Phone: Email: Correspondent Nam	E DATA ( <i>Il be sent to</i> , <i>if provided;</i> 7 v ne: N	703)816-4100 <i>the e-mail address first; if that is</i> <i>if that is unsuccessful, it will be</i> 03-816-4000 yunker@nixonvan.com IIXON & VANDERHYE, P.C.			
CORRESPONDENC Fax Number: <i>Correspondence wi</i> <i>using a fax number</i> Phone: Email: Correspondent Nam Address Line 1:	E DATA ( <i>Il be sent to</i> , <i>if provided;</i> 7 v ne: N	703)816-4100 the e-mail address first; if that is if that is unsuccessful, it will be 03-816-4000 yunker@nixonvan.com IIXON & VANDERHYE, P.C. 121 N. GLEBE ROAD			
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CORRESPONDENC Fax Number: Correspondence wi using a fax number, Phone: Email: Correspondent Nam Address Line 1: Address Line 2: Address Line 4:	E DATA ( <i>Il be sent to</i> , <i>if provided;</i> 7 <b>v</b> ne: N 9 5 <i>A</i>	703)816-4100 the e-mail address first; if that is if that is unsuccessful, it will be 703-816-4000 yunker@nixonvan.com NXON & VANDERHYE, P.C. 121 N. GLEBE ROAD SUITE 1100 NRLINGTON, VIRGINIA 22203-180	e sent via US Mail.		
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CORRESPONDENC Fax Number: <i>Correspondence wi</i> <i>using a fax number</i> Phone: Email: Correspondent Nam Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET	E DATA ( <i>Il be sent to</i> <i>if provided;</i> 7 <b>ne:</b> 8 9 6 7	703)816-4100 the e-mail address first; if that is if that is unsuccessful, it will be 03-816-4000 yunker@nixonvan.com NXON & VANDERHYE, P.C. 21 N. GLEBE ROAD SUITE 1100 NRLINGTON, VIRGINIA 22203-180 IPW-6229-8 ISHAN P. WEERAKOON	e sent via US Mail.		
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CORRESPONDENC Fax Number: Correspondence wi using a fax number Phone: Email: Correspondent Nam Address Line 1: Address Line 2: Address Line 2: Address Line 4: ATTORNEY DOCKET NAME OF SUBMITTE SIGNATURE: DATE SIGNED:	E DATA ( <i>Il be sent to</i> , <i>if provided;</i> 7 ne: N S A NUMBER: :R:	703)816-4100 the e-mail address first; if that is if that is unsuccessful, it will be 03-816-4000 yunker@nixonvan.com IIXON & VANDERHYE, P.C. 121 N. GLEBE ROAD SUITE 1100 ARLINGTON, VIRGINIA 22203-180 IPW-6229-8 ISHAN P. WEERAKOON /Ishan P. Weerakoon/ 03/06/2017	e sent via US Mail.		
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PATENT REEL: 041477 FRAME: 0467

	Attorney Docket Number	IPW-6229-8			
	First Named Inventor	FRANCZYK, Gregory			
INVENTOR'S DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) USING AN APPLICATION DATA SHEET (37 CFR 1.76) Declaration Submitted With Initial Filing OR Declaration Submitted After Initial Filing (surcharge (37 C.F.R. § 1.16(f)) required)					
AUTOMATED DEPENDENCY MANAGEMENT BASED	ON PAGE COMPONENT	rs			
(Title of the Invention)		en mande feljer van presenten inder de de generature oorgel			
As a below named inventor, I hereby declare that:					
This declaration is directed to: ☐ the attached application, or ⊠ United States Application Number 15/221,291 filed July 27, 2016, or ☐ PCT International application number filed on					
The above-identified application was made or authorized to be made by me.					
I believe I am the original inventor or an original joint inventor of a claimed inve	ntion 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.					
WHEREAS, the undersigned (hereinafter ASSIGNOR), has made an invention	in the Application identified a	bove.			
WHEREAS, WP Company LLC d/b/a The Washington Post (hereinafter ASSIGNEE), an entity, having an office and place of business at 1150 15 <sup>TH</sup> Street, N.W., Washington, DC 20071, is desirous of acquiring an interest therein;					
NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and/or other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNOR by these presents hereby sells, assigns, and transfers unto the said ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNOR'S entire right, title and interest in the United States of America and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and to all subsequent applications based thereon including any and all continuations, divisions, reissues, and substitutes of said application, and to all resulting patents, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and the ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives. It is understood and agreed that ASSIGNEE's attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention;					
ASSIGNOR hereby agrees to transfer a like interest upon request of said ASSIGNEE, its successors, assigns, and legal representatives, and without further remuneration, in and to any improvements, and applications for patents based thereon, growing out of or related to the said invention;					
ASSIGNOR hereby agrees to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed essential to ASSIGNEE'S full protection and title in and to the invention hereby transferred; and					
ASSIGNOR hereby agrees, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.					
AGREED and executed as noted below:					
LEGAL NAME OF INVENTOR/JOINT INVENTOR: (E.g., Given Name (first and middle (if any)) and Family Name or Surname)					
Inventor's Signature: Gred Franczyk	Date: Q/7	1/17			
Witnessed by: Name: Matthew Garber					
Signature of witness: Matthew Garba Date: 2/7/17					

PATENT REEL: 041477 FRAME: 0468

	Attorney Docket Number	IPW-6229-8			
	Second Named Inventor	KIM, Timothy			
INVENTOR'S DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)					
USING AN APPLICATION DATA SHEET (37 CFR 1.76)					
Declaration Submitted With Initial Filing					
Declaration Submitted After Initial Filing (surcharge (37 C.F.R. § 1.16(f)) required)					
AUTOMATED DEPENDENCY MANAGEMENT BASED	ON PAGE COMPONENT	Sector and the sector			
(Title of the Invention)		saini in in na galantin ni maasa sa muu na in na muu na ini na anga sa anga sa anga sa anga sa anga sa anga sa			
As a below named inventor, I hereby declare that:					
This declaration is directed to: ☐ the attached application, or ☑ United States Application Number 15/221,291 filed July 27, 2016, or ☐ PCT International application number filed on					
The above-identified application was made or authorized to be made by me.					
I believe 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.					
WHEREAS, the undersigned (hereinafter ASSIGNOR), has made an invention in the Application identified above.					
WHEREAS, WP Company LLC d/b/a The Washington Post (hereinafter ASSIGNEE), an entity, having an office and place of business at 1150 15 <sup>TH</sup> Street, N.W., Washington, DC 20071, is desirous of acquiring an interest therein;					
NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and/or other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNOR by these presents hereby sells, assigns, and transfers unto the said ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNOR'S entire right, title and interest in the United States of America and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and to all subsequent applications based thereon including any and all continuations, divisions, reissues, and substitutes of said application, and all resulting patents, together with the right of priority under the International Convention for the Protection of Industrial Property. Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and the ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention;					
ASSIGNOR hereby agrees to transfer a like interest upon request of said ASSIGNEE, its successors, assigns, and legal representatives, and without further remuneration, in and to any improvements, and applications for patents based thereon, growing out of or related to the said invention;					
ASSIGNOR hereby agrees to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed essential to ASSIGNEE'S full protection and title in and to the invention hereby transferred; and					
ASSIGNOR hereby agrees, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.					
AGREED and executed as noted below:					
LEGAL NAME OF INVENTOR/JOINT INVENTOR: (E.g., Given Name (first and middle (if any)) and Family Name or Surname)					
Timothy KIM					
-tast-	Date: 2./7	2017.			
Witnessed by:					
Name: Gregory Engel					
Signature of witness: The gave Con Date: 2/7/2017					

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I/We acknowledge the duty to disclose information which is material to the patentability of this application as defined in 37 CFR §1.58.

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## PATENT REEL: 041477 FRAME: 0469

<ul> <li>A second s</li></ul>	Attorney Docket Number	IPW-6229-8				
	Third Named Inventor	MASON, Lucas D.				
INVENTOR'S DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) USING AN APPLICATION DATA SHEET (37 CFR 1.76) Declaration Submitted With Initial Filing						
OR						
		na n				
AUTOMTED DEPENDENCY MANAGEMENT BASED	ON PAGE COMPONENT	S				
(Title of the Invention)						
As a below named inventor, I hereby declare that:						
This declaration is directed to: the attached application, or United States Application Number 15/221,291 filed July 27, 2016, or PCT International application number filed on						
The above-identified application was made or authorized to be made by me.	The above-identified application was made or authorized to be made by me					
I believe I am the original inventor or an original joint inventor of a claimed inve						
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.						
WHEREAS, the undersigned (hereinafter ASSIGNOR), has made an invention in the Application identified above.						
WHEREAS, WP Company LLC d/b/a The Washington Post (hereinafter ASSIGNEE), an entity, having an office and place of business at 1150 15 <sup>TH</sup> Street, N.W., Washington, DC 20071, is desirous of acquiring an interest therein;						
NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and/or other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNOR by these presents hereby sells, assigns, and transfers unto the said ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNOR'S entire right, title and interest in the United States of America and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and to all subsequent applications based thereon including any and all continuations, divisions, reissues, and substitutes of said application, and all resulting patents, together with the right of priority under the international Convention for the Protection of Industrial Property. Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and the ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention;						
ASSIGNOR hereby agrees to transfer a like interest upon request of said ASSIGNEE, its successors, assigns, and legal representatives, and without further remuneration, in and to any improvements, and applications for patents based thereon, growing out of or related to the said invention;						
ASSIGNOR hereby agrees to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed essential to ASSIGNEE'S full protection and title in and to the invention hereby transferred; and						
ASSIGNOR hereby agrees, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.						
AGREED and executed as noted below:						
Legal Name of Additional Joint Inventor, if any:						
(E.g., Given Name (first and middle (if any)) and Family Name or Sumame) Lucas D.		MÁSON				
Inventor's Signature:	Date: 2-C-1					
Witnessed by:		(				
Name: Mason Fuster						
Signature of witness: The Ant	Date: 002 -	- 66-17-				

I/We acknowledge the duty to disclose information which is material to the patentability of this application as defined in 37 CFR §1.56.

## PATENT REEL: 041477 FRAME: 0470

## **RECORDED: 03/06/2017**