| Form PTO-1595 (Rev. 0 OMB No. 0651-0027 (ex | | | U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office |
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| | PAT | ENTS | ONLY |
| To the Director of t | ne U.S. Patent and Trademark Offi | ce: Please I | record the attached documents or the new address(es) below. |
| 1. Name of conv | eying party(les): | | 2. Name and address of receiving party(les) |
| Claire Dulong ((09/05/2013), P and | 09/05/2013), Jean-Luc Carro ierrick Guyomarc'h (09/05/2 |)z D13), | Name: Vygon |
| | enveying party(les) attached? X Yes | No | Street Address: |
| 3. Nature of conve | yance/Execution Date(a): | | . A 1.0 |
| Execution Date(s): X Assignment | In parentheses after inventor nan Merger Change of Na | me | 5, rue Adeline F-95440 Ecouen FRANCE |
| Security Agree | ment Joint Research Agreen | ent | City: |
| Government In | terest Assignment | • | State: |
| Executive Orde | r 9424, Confirmatory License | : : | Country:Zip: |
| Other | 44 | ; | Additional name(s) & address(es) Yes X No attached? |
| A. Patent Applicat | | ` ` | This document is being filed together with a new application. B. Patent No.(s) |
| | Additional number | attached? | Yes X No |
| 6. Name and address concerning docu | s to whom correspondence ment ehould be mailed: | | 6. Total number of applications and patents involved: |
| | Thomas M. Palisi RNER, DAVID, LITTENBER RUMHOLZ & MENTLIK, LL | | 7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00 |
| Internal Address: A Street Address: 60 | ty. Dkt.: 0 South Avenue West | | Authorized to be charged to deposit account Enclosed None required (government Interest not affecting title) |
| City: | Westfield |) ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 8. Payment information |
| State: | | 090 | |
| Phone Number: | 908-654-5000 | | 40 4005 |
| Fax Number: | 908-654-7866 | } | Deposit Account Number 12-1095 Authorized User Name Thomas M. Palisi |
| Email Address: | mcormier@ldlkm.con | | Additioned Open Harman Thomas IVI. Fallst |
| 9. Signature: | Signature | | September 12, 2013 Date |
| | Thomas M. Palisi - 36,6 Name of Person Signing | 59 | Total number of pages including cover sheet, attachments, and documents: |

PATENT

REEL: 031323 FRAME: 0560

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| | RECORDATION (| N FORM COVER SHEET (PTO-1595) (supplemental sheet) | |
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| Additional Convey | ing Party(les)/Ex | ecution Date(s) (1. Continued): | |
| Jean-Louis Coussega | i (09/05/2013) | | |
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| Additional Assigne | es (2. Continued) |): | |
| Assignee Name: | | | |
| Internal Address: | 1 | | |
| Street Address: | | | |
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| Clty: | State: | Country: Zip: | |
| Assignee Name: | 1 | | |
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| Additional Applica | tions and/or Pater | ents (4. Continued): | |
| | · | Additional Patent Numbers | |
| Additional Patent Applicati 4A, Continued | on Numbers | 4B. Continued: | |
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| | Additional numbe | pers attached? Yes No | |
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| | \ | | PTO/SB/15 (8-00) Modified LDLK&M |
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| ASSIGNMENT OF UTILITY APPI | LICATION | Docket Numb | er (Optional) |
| Whereas, I, Claire DULONG | | | of |
| 21 rue de la République, 60126 RIVEO | OURT - FRANC | E | |
| hereafter referred to as assignor, have with oth | | | ents in |
| for which an application for a United S Application Number | lates Letters Pat | ent was filed on | |
| for which an application for a United St | tes Letters Pate | nt was executed by me on | |
| for which an International Application | n was filed on | | , as |
| , design | ating the United | i States. | |
| And Whereas, VYGON | | | |
| a corporation of FRANCE herein referred to as | assignee" whose | mailing address Is | |
| 5, rue Adeline, 95440 ECOUEN - FRA | NCE | | A.B. |
| is desirous of acquiring the entire right, title and | Interest in the s | ame; | |
| NOW, THEREFORE, In consideration of the suls acknowledged, and other good and valuable assignee my entire right, title and interest for invention and the aforesaid utility patent applications and patents applied for or grante said invention, including without limitation all at the aforesaid utility application pursuant to an infringement with the right to sue for and colle legal representatives, and including the right Trademarks is hereby authorized and request said assignee herein, as assignee of the representatives, heirs and assigns do hereby all original, divisional, continuation, relissue a assignments thereof to said assignee or its asknown to the undersigned respecting said implegal proceedings in which any of said applicating patent protection for said improvements and paid by said assignee. | consideration, the United Statilication and all difference in the pplications and pylications and pylications are to claim such pried to issue all pentire interest igree and covers did other applications or patents ig necessary to all countries, | tes of America and all other original, divisional, continuational patents for said invention cial patents for said invention cial ind including all claims for dates own use and the use of its ority or benefit and the Compatents on said improvements therein; and the undersigned and without further remunerable in some continuations for Letters Patent on significate to said assignee or its never requested, to testify in may become involved, to significant in the expenses incident to said | countries in and to said fon, substitute or relasue and all other countries, for iming priority or benefit of images by reason of past successors, assigns and missioner of Patents and or resulting therefrom to ad for me and my legal on, to execute and deliver aid improvements and all a representatives all facts any interferences or other in all lawful papers, make assigns and nominees to depplications to be borne |
| And I do hereby authorize my attorneys to Inse | nt on this deed t | ne miing date and application i | idilibai oi said abbiidadoir |
| Sept 5th, 2013 | | Claire DUI | ONG |
| Date to UL Witness | | . SIMILO DOM | |
| Typed Name of Witness | · | | |
| *Total of 1 forms are submitte | d. | | |

PATENT REEL: 031323 FRAME: 0562

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| ASSIGNMENT OF UTILITY APP | ICATION | Docket Number (Optional) | |
| Whereas, I, Jean-Luc CARREZ | | | of |
| 15, rue Jean-Jaurès, 95440 ECOUEN | EDANCE | | *' |
| | | ale annual matilian annual annual la | |
| hereafter referred to as assignor, have with oth | ers invented cent | am new and useful improvements in | |
| for which an application for a United S Application Number | tates Letters Pate | ent was filed on | |
| for which an application for a United St | ites Letters Pater | nt was executed by me on , | , |
| for which an International Application | | | |
| And design | ating the United | States. | |
| Whereas, VYGON | | | |
| a corporation of FRANCE herein referred to as 5, rue Adeline, 95440 ECOUEN - FRA | | mailing address is | |
| is desirous of acquiring the entire right, title and | | ame: | |
| | | | |
| assignee my entire right, title and interest for invention and the aforesaid utility patent apprepriated and patents applications and patents applied for or grantersald invention, including without limitation all at the aforesald utility application pursuant to an infringement with the right to sue for and coile legal representatives, and including the right including the right. Trademarks is hereby authorized and request said assignee herein, as assignee of the representatives, heirs and assigns do hereby all original, divisional, continuation, reissue a assignments thereof to said assignee or its at known to the undersigned respecting said implication in the indersigned respecting said implication in the proceedings in which any of said application in patent protection for said improvements and paid by said assignee. | e consideration, if the United Statication and all of therefor in the polications and prize or treaty, are the same for it to cialm such prize and to issue all presentire interest of the same for it gree and covenad other applications, to community overments, when thous or patents in all countries, | dollar (\$ 1.00), the receipt when as assignor hereby sell, assign and set over to es of America and all other countries in and to original, divisional, continuation, substitute or relativistic of sell invention claiming priority or beneficial including all claims for damages by reason of as own use and the use of its successors, assigns ority or benefit and the Commissioner of Patents attents on said improvements or resulting therefore therein; and the undersigned for me and my int without further remuneration, to execute and delicity for Letters Patent on said improvements an iniciate to said assignee or its representatives all the ever requested, to testify in any interferences or of may become involved, to sign all lawful papers, mad assignee, its successors, assigns and nominer the expenses incident to said applications to be better filling date and application number of said application and applications and applications and applications to be the filling date and application number of said applications to be the filling date and application number of said applications to be the filling date and application number of said applications to be the filling date and application number of said applications to the filling date and application number of said applications. | said said issue s, for efft of past s and orn to legal eliver nd all facte other make es to corne |
| when known Sept 5 Mg, 2013 | | Jean-Luc CARREZ | |
| Witness Charter Na Ue Typed Name of Witness | | J. Seall Ede Gridne | |
| *Total of 1 forms are submitte | d. | | |

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| | , | | PTO/SB/15 (8-00) Modified LDLK&M |
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| ASSIGNMENT OF UTILITY APP | LICATION | Docket Numb | per (Optional) |
| Whereas, I, Pierrick GUYOMARC'H | J | | of |
| 3, rue Faul Eluard, 95120 ERMONT F | RANCE | | |
| hereafter referred to as assignor, have with oth | | ain new and useful improver | nents in |
| for which an application for a United 8 Application Number | tates Letters Pat | ent was filed on | |
| for which an application for a United S | ates Letters Pater | nt was executed by me on | |
| for which an International Applicati | on was filed on | 7.84.8 | , as |
| And desigr | ating the United | States. | |
| Whereas, VYGON | | | |
| a corporation of FRANCE herein referred to as | | mailing address is | |
| 5, rue Adeline, 95440 ECOUEN - FR | NAMES AND DESCRIPTION OF THE PROPERTY OF THE P | | |
| is desirous of acquiring the entire right, title an | interest in the s | ame; | |
| NOW, THEREFORE, In consideration of the si Is acknowledged, and other good and valuable assignee my entire right, title and interest for invention and the aforesaid utility patent applications and patents applied for or grante said invention, including without limitation all at the aforesaid utility application pursuant to an infringement with the right to sue for and colle legal representatives, and including the right Trademarks is hereby authorized and request said assignee herein, as assignee of the representatives, heirs and assigns do hereby all original, divisional, continuation, release a assignments thereof to said assignee or its a known to the undersigned respecting said implegal proceedings in which any of said applicatil rightful oaths, and to do generally everythicottain patent protection for said improvement and paid by said assignee. | e consideration, the United Statilication and all of the End of the End of the same for it to claim such priced to issue all predict in the end of the same for it in the end of the same for it in the end of th | es of America and all other priginal, divisional, continuat United States of America are patents for said invention claim of including all claims for dates own use and the use of its prity or benefit and the Compatents on said improvements therein; and the undersigned in without further remunerable in the continuations for Letters Patent on said incate to said assignee or its ever requested, to testify in a may become involved, to significate the said assignee, its successors, the expenses incident to said | countries in and to said jon, substitute or relssue and all other countries, for iming priority or benefit of images by reason of past is successors, assigns and imissioner of Patents and is or resulting therefrom to ed for me and my legal on, to execute and deliver aid improvements and all is representatives all facts any interferences or other in all lawful papers, make assigns and nominees to dispolications to be borned. |
| And I do hereby authorize my attorneys to Inse when known. | rt on this deed th | e filing date and application r | number of said application |
| Sept 5th, 2013 | · | <u>Q</u> | <u> </u> |
| Date | | Pierric k GUY O | MARC'H |
| Witness | | | |
| Typed Name of Witness | | <u></u> - | |
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| ASSIGNMENT OF UTILITY APP | LICATION | Docket Numb | er (Optional) |
| Whereas, I, Jean-Louis COUSSEGAL 52bis, Avenue Victor Basch , 95250 B | FAIICHAMD FR | ANCE | of |
| hereafter referred to as assignor, have with oth | | | ents in |
| for which an application for a United S | tates Letters Pal | ent was filed on | |
| for which an application for a United St | | | |
| for which an International Applicati | | | , as |
| And , design | ating the United | States. | |
| Whereas, VYGON | | | |
| a corporation of FRANCE herein referred to as | 'assignee" whose | mailing address Is | • |
| 5, rue Adeline, 95440 ECOUEN - FR | MCE | Mile Mile Andrews | |
| is desirous of acquiring the entire right, title an | Interest in the s | ame; | |
| NOW, THEREFORE, in consideration of the sill acknowledged, and other good and valuable assignee my entire right, title and interest for invention and the aforesaid utility patent applications and patents applied for or grants said invention, including without limitation all a the aforesaid utility application pursuant to an infringement with the right to sue for and colledgal representatives, and including the right Trademarks is hereby authorized and requessaid assignee herein, as assignee of the representatives, heirs and assigns do hereby all original, divisional, continuation, relissue a assignments thereof to said assignee or its a known to the undersigned respecting said implegal proceedings in which any of said applical rightful oaths, and to do generally everythic obtain patent protection for said improvement and paid by said assignee. | e consideration, the United Stallication and all difference in the pplications and y law or treaty, a to claim such pried to Issue all plentire interest igree and covenad other applica islgns, to comminovements, when itions or patents in all countries, | tes of America and all other original, divisional, continuation of the patents for said invention claims for said invention claims for dates of the use of its own use and the use of its lority or benefit and the Compatents on said improvements therein; and the undersigner and without further remunerations for Letters Patent on such the compatents of the said assignee or its may become involved, to significant in the expenses incident to said | countries in and to sale on, substitute or reissue and all other countries, for ming priority or benefit of mages by reason of past successors, assigns and missioner of Patents and or resulting therefrom to do for me and my legal on, to execute and deliverald improvements and all suppresentatives all facts any interferences or other nall lawful papers, make assigns and nominees to applications to be borne |
| And I do hersby authorize my attorneys to Ins when known. | ort on this deed t | he filing date and application f | number of said application |
| Sept 5th, lor3 | | Jean-Louis COL | USSEGAL |
| Witness Clustic Dorle Typed Name of Witness | | | |
| *Total of 1 forms are submitt | ed. | | , |

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