502864888 06/24/2014

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2911485

| SUBMISSION TYPE: | NEW ASSIGNMENT | | |
|-----------------------|----------------|--|--|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | |

CONVEYING PARTY DATA

| Name | Execution Date | |
|----------------|----------------|--|
| Tsuneo OKUYAMA | 06/18/2014 | |

RECEIVING PARTY DATA

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| State/Country: | Japan | | |
| Postal Code: | 467-8561 | | |

PROPERTY NUMBERS Total: 1

| Property Type | Number | | | |
|---------------------|----------|--|--|--|
| Application Number: | 14313237 | | | |

CORRESPONDENCE DATA

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Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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| ATTORNEY DOCKET NUMBER: | 162189 |
|-------------------------|------------|
| NAME OF SUBMITTER: | IN PARK |
| SIGNATURE: | /IN PARK/ |
| DATE SIGNED: | 06/24/2014 |

Total Attachments: 1

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PATENT REEL: 033167 FRAME: 0477

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| | | (1) | Tsuneo OKUYAN | 1A | (5) | | | |
|--|--|---|---|--|--|--|---|--|
| (1-8) | Insert | (2) | | | | _ | | |
| | Name(s) of Inventor(s) | (3) | | | | | | |
| | | (4) | | | | | | |
| | | paid to set ov | In considerati each of the undersi | on of the sum | of one dollar (\$ | 1.00) and other g | ood and valual | ble consideration |
| (9) | Insert Name of Assignee | (9) | BROTHER KOGY | A N A DI ISUI: | ZI V AIGUA | | | |
| (10) | Insert Address of Assignee | (10) | | | | ahi kan 167 956 | Llower | |
| | Assignet | • • | 15-1, Naeshiro-che | | | | | |
| | | the ent invent contin | nafter designated as the right, title and into the right, title and into the right and in all applications, international, tons, reissues and reco | erest for the Ur tions for paten confirmation, s | ited States of A tincluding any a substitute and re | merica as defined and all provisional issue application(s | in 35 U.S.C. § , non-provision s), and all Lette | 100, in the nal, divisional, ers Patent, |
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| | Number, or Foreign Application Number | f A I for | ncy Docket No. | | 162189 | | | |
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| | | | n date herewith or | ina (mayo) eke | инса ан аррио | actour for patent in | the Officer St | ates of America |
| (12) | Insert Date of Signing of | (12) on | Van. | 18, | 2019 | 7 | | |
| | Application | | | , | | | | |
| (13) | Alternative | (13) Numbe | U.S. application | | | 14/313,2 | .37 | |
| | Identification for filed applications | filed | | June 2 | 24, 201 | 4 | | |
| the Assi claims o reexamin Patents of full right and agre be neces | 2) Each undersigned agree ication or continuation or dignee in every way possible in 3) Each undersigned agree reprovisions of the Internation 4) Each undersigned agree nation a grant of a valid Unit 5) Each undersigned authors the United States resulting to convey the entire interest est that this assignment is bin 6) Each undersigned here sary or desirable in order to a liquid to convey the entire interest est that this assignment is bin 6) Each undersigned here that the sary or desirable in order to a liquid to convey the content of the entire interest that the sary or desirable in order to a liquid the sary or desir | vision then obtaining to execute to execute to perfect the states or izes and from said therein as adding on help grants to comply we | reof, or any patent of gevidence and going utte all papers and does not only on the Assignation for Protection or all affirmative ac patent to the Assignate requests the Commit application(s) to the signed, and that he lim and his heirs, such the firm of OLIFF PL till the rules of the U | r reissue appli g forward with currents and p sts which may se, issioner of the e said Assigne has not execute occessors, assig C the power to nited States Pr | cation based the such interference froperty or similate he necessary to U.S. Patent and e, as Assignee ed, and will not an and legal repairment on this attent and Trade | ereon, for the invo- ce. which may be ne lar agreements. obtain, maintain I Trademark Offi- of the entire inter- execute, any agre- presentatives, mark Office for no- | ention, and to cossary in con or confirm by the to issue any est, and coven tements in contriber identified | cooperate with mection with reissue or and all Letters and the has afflict herewith, eation that may |
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