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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2744694

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| SUBMISSION TYPE: | | NEW ASSIGNMENT | NEW ASSIGNMENT | | | |
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| CONVEYING PARTY I | DATA | - | | | | |
| | | Name | Execution Date | | | |
| DAISUKE MIYASHITA | 4 | | 02/24/2014 | | | |
| RECEIVING PARTY D | ATA | | <u> </u> | | | |
| Name: | KABUSHIKI K | AISHA TOSHIBA | | | | |
| Street Address: | 1-1, SHIBAUF | A 1-CHOME, MINATO-KU | | | | |
| City: | токуо | | | | | |
| State/Country: | JAPAN | | | | | |
| Postal Code: | 105-8001 | | | | | |
| PROPERTY NUMBERS Total: 1 Property Type Number | | | | | | |
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| Application Number: CORRESPONDENCE Fax Number: Phone: Email: Correspondence will b Correspondent Name: Address Line 1: Address Line 2: Address Line 4: ATTORNEY DOCKET NAME OF SUBMITTER | DATA (713 713 psdc e sent via US Ma FRE 3040 SUIT HOU | 14191297)623-4846 6323 4844 cketing@pattersonsheridan.com, mguajar il when the email attempt is unsuccessful. DERICK D. KIM DPOST OAK BLVD TE 1500 STON, TEXAS 77056 TAI/0539US FREDERICK D. KIM | rdo@pattersonsheridan.com | | | |

PATENT REEL: 032307 FRAME: 0239

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Total Attachments: 2

ACG066919-USA-A

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

| Names and Addresses of Inventors: | \$ | | |
|--|----|----------|---|
| | ; | <i>:</i> | |
| 1) Daisuke MIYASHITA Kananawa-ken Janan | :: | | ~ |

(hereinafter referred to as Assignors), have invented a certain invention entitled:

DELAY CIRCUIT AND DIGITAL TO TIME CONVERTER

for which an application for Letters Patent in the United States:

| • | is executed concurrently herewill | h, | |
|---|-----------------------------------|-----------------|--|
| | was executed on | | |
| | was filed on | under Serial No | |

WHEREAS, Kabushiki Kaisha Toshiba, a Japanesecorporation, having a business address at 1-1, Shibaura 1-chome, Minato-ku, Tokyo, Japan (hereinafter collectively referred to as Assignee), are desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

- 1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a conventional, division, substitution, continuation or continuation-in-part of said Application; and (d) in and to each and every reissue or extension of any of said Patents.
- 2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, conventional, divisional, continuing, continuation-in-part or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefore and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.
- 3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.

PATENT REEL: 032307 FRAME: 0240

| 4. | Said Assigi | nors hereby | / warrant and | represent t | hat they | have no | t entered | and 1 | W8[| not |
|----------------|-------------|-------------|---------------|---------------|----------|---------|-----------|-------|-----|-----|
| enter into any | assignment, | contract or | understanding | g in conflict | herewith | ١. | | | | |
| | 7 | | | 7 | | | | | | |

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1) Feb, 24, 20 (4 (DATE)

Daisuke MIYASHITA

PATENT REEL: 032307 FRAME: 0241

RECORDED: 02/26/2014

riya Xasaya