FORM PTO-1595 (Rev. 07/05) OMB No. 0651-0027 (exp 6/30/2008)

10-25-2007

Attorney Docket No. 07241.0050 Attorney Customer Number: 22,852

| To the Director of the U.S. Patents an 103455944 | ched original documents or copy thereof. | |
|---|--|--|
| 1. Name of conveying party(ies): Tomoaki YAMAMOTO | AP17 Recarded PT 15 Terein Date (12007) Name: ASAHI KASEI EMD CORPORATION | |
| Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No | Internal Address: | |
| 3. Nature of conveyance/Execution Date(s): Execution DateJuly 31, 2007 Assignment | Street Address: 23-7, Nishishinjuku 1-chome, Shinjuku-ku, Tokyo 160-0023 Japan City: State: Zip Code: Additional name(s) & Address(es) attached? Yes No This document is being filed together with a new application. | |
| A. Patent Application Number(s): | B. Patent Number(s): | |
| Additional numbers attached? | │ ☐ Yes | |
| 5. Name and address of to whom correspondence concerning document should be mailed: | 6. Total number of applications and registrations involved: | |
| Name: Mr. Ernest F. Chapman | 7. Total fee (37 CFR 3.41): \$40 | |
| Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT | Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed (Please charge deficiency to deposit account) None required (government interest not affecting title) | |
| & DUNNER, L.L.P. | 8. Payment Information | |
| Street Address: 901 New York Avenue, NW City: Washington, D.C. | a. Credit Card Last 4 Numbers Expiration Date b. Deposit Account No.: <u>06-0916</u> | |
| State: Zip: 20001-4413 | Authorized User Name | |
| 8. Statement and signature. | | |
| To the best of my knowledge and belief, the foregoing information is true a document. | | |
| Ernest F. Chapman Reg. No. 25,961 Signa | October 16, 2007 Date | |
| Total number of pages including cover sheet, a | ttachments and documents: 2 | |

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, PO box 1450, Alexandria, VA 22313-1450

ATTORNEY DOCKET NO.:

SOLE/JOINT INVENTION (U.S. Rights Only)

ASSIGNMAPT7 Rec'd PCT/PTO 16 OCT 2007

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

VOLTAGE CONTROLLED OSCILLATOR

| | or filed an application for, (Serial No | |
|---|--|--|
| WHEREAS, ASAHI K | ASET FMD CORDORATION | |
| a corporation of | | ,whose post office |
| | uku 1-chome, Shinjuku-ku, Tokyo 160-0 | OO23 JAPAN |
| (hereinafter referred to as interest in and to this inve | Assignee), is desirous of securing the ention, the application for United Statent to be issued upon this applications. | he entire right, title, an ates Letters Patent on thi |
| which from assignee is herektransferred, and set over, assignee, its lawful success and to this invention and thand all Letters Patent of thereof; and I/WE hereby aut of the United States to issue | known that, for good and valuable cons by acknowledged, I/WE, as assignor(s) and do hereby sell, assign, transfer, sors and assigns, my/our entire right his application, and all divisions, as he United States which may be granted thorize and request the Commissioner of ue all Letters Patent for this invent ordance with the terms of this Assign | , have sold, assigned, and set over unto the , title, and interest in nd continuations thereof, thereon, and all reissues of Patents and Trademarks ion to assignee, its suc- |
| | | , without further |
| me/us respecting this invent when called upon to do so, desirable to perfect the ti- assigns, execute all division oaths and generally do every obtain and enforce proper po | with assignee, its successors and ass tion and testify in any legal proceed execute and deliver all papers that m tle to this invention in said assigne onal, continuation, and reissue appli ything possible to aid assignee, its atent protection for this invention i xpense incident to the execution of s sors and assigns. | igns, any facts known to ing, sign all lawful paper ay be necessary or e, its successors and cations, make all rightful successors and assigns, to the United States, it |
| me/us respecting this invent when called upon to do so, desirable to perfect the til- assigns, execute all division oaths and generally do ever obtain and enforce proper poleting understood that any end by the assignee, its successive the assignee, its successive the assignee of At (Application No. application number of said | tion and testify in any legal proceed execute and deliver all papers that method the tothis invention in said assigned onal, continuation, and reissue applitionally thing possible to aid assignee, its atent protection for this invention in expense incident to the execution of some sors and assigns. Horize and request the attorneys I/we storney in this application, to insert application when known. | igns, any facts known to ing, sign all lawful paper ay be necessary or e, its successors and cations, make all rightful successors and assigns, to n the United States, it uch papers shall be borne have empowered in the here in parentheses |
| me/us respecting this invent when called upon to do so, desirable to perfect the til- assigns, execute all division oaths and generally do ever obtain and enforce proper poleting understood that any emby the assignee, its success AND, I/WE HEREBY auth Declaration and Power of At (Application No | tion and testify in any legal proceed execute and deliver all papers that method the tothis invention in said assigned onal, continuation, and reissue applitionally thing possible to aid assignee, its atent protection for this invention in expense incident to the execution of some sors and assigns. Horize and request the attorneys I/we storney in this application, to insert application when known. I/We have hereunto set our hand(s). | igns, any facts known to ing, sign all lawful paper ay be necessary or e, its successors and cations, make all rightful successors and assigns, to n the United States, it uch papers shall be borne have empowered in the here in parentheses the filing date and |
| me/us respecting this invent when called upon to do so, desirable to perfect the til- assigns, execute all division oaths and generally do ever obtain and enforce proper poleting understood that any emby the assignee, its success AND, I/WE HEREBY auth Declaration and Power of At (Application No | tion and testify in any legal proceed execute and deliver all papers that method the tothis invention in said assigned onal, continuation, and reissue applitionally thing possible to aid assignee, its atent protection for this invention in expense incident to the execution of some sors and assigns. Horize and request the attorneys I/we storney in this application, to insert application when known. | igns, any facts known to ing, sign all lawful paper ay be necessary or e, its successors and cations, make all rightful successors and assigns, to n the United States, it uch papers shall be borne have empowered in the here in parentheses |
| me/us respecting this invent when called upon to do so, desirable to perfect the til assigns, execute all division oaths and generally do every obtain and enforce proper policition and enforce proper policition understood that any end by the assignee, its success AND, I/WE HEREBY auth Declaration and Power of At (Application No. application number of said IN TESTIMONY WHEREOF, 1. Full Name of Sole or Fir YAMAMOTO Tomoaki Address | tion and testify in any legal proceed execute and deliver all papers that method the too this invention in said assigned onal, continuation, and reissue applitything possible to aid assignee, its atent protection for this invention in expense incident to the execution of some sors and assigns. Horize and request the attorneys I/we storney in this application, to insert application when known. I/We have hereunto set our hand(s). Est Assignor: Assignor's Signature : Immedia Jamameto | igns, any facts known to ing, sign all lawful paper ay be necessary or e, its successors and cations, make all rightful successors and assigns, to n the United States, it uch papers shall be borne have empowered in the here in parentheses the filing date and : Date : 07/31/2007 : Citizenship |
| me/us respecting this invent when called upon to do so, desirable to perfect the til assigns, execute all divisio oaths and generally do ever obtain and enforce proper poleting understood that any expected by the assignee, its success AND, I/WE HEREBY auth Declaration and Power of At (Application No. application number of said IN TESTIMONY WHEREOF, 1. Full Name of Sole or Fir YAMAMOTO Tomoaki Address 1-2, Yuraku-cho 1-chome, Chemoaki | tion and testify in any legal proceed execute and deliver all papers that method the tothis invention in said assigned onal, continuation, and reissue applity thing possible to aid assignee, its atent protection for this invention in the execution of second assigns. Sorize and assigns. Sorize and request the attorneys I/we storney in this application, to insert application when known. I/we have hereunto set our hand(s). | igns, any facts known to ing, sign all lawful paper ay be necessary or e, its successors and cations, make all rightful successors and assigns, to n the United States, it uch papers shall be borne have empowered in the here in parentheses the filing date and : Date : 07/31/2007 : Citizenship : Japanese |
| me/us respecting this invent when called upon to do so, desirable to perfect the til assigns, execute all division oaths and generally do every obtain and enforce proper policition and enforce proper policition understood that any end by the assignee, its success AND, I/WE HEREBY auth Declaration and Power of At (Application No. application number of said IN TESTIMONY WHEREOF, 1. Full Name of Sole or Fir YAMAMOTO Tomoaki Address | tion and testify in any legal proceed execute and deliver all papers that method the tothis invention in said assigned onal, continuation, and reissue applitything possible to aid assignee, its atent protection for this invention in expense incident to the execution of some sors and assigns. Acrize and request the attorneys I/we storney in this application, to insert the application when known. I/We have hereunto set our hand(s). The st Assignor: Assignor's Signature in the same of the same | igns, any facts known to ing, sign all lawful paper ay be necessary or e, its successors and cations, make all rightful successors and assigns, to n the United States, it uch papers shall be borne have empowered in the here in parentheses the filing date and : Date : 07/31/2007 : Citizenship |
| me/us respecting this invent when called upon to do so, desirable to perfect the til assigns, execute all divisio oaths and generally do ever obtain and enforce proper pose being understood that any exp by the assignee, its succes AND, I/WE HEREBY auth Declaration and Power of At (Application No. application number of said IN TESTIMONY WHEREOF, 1. Full Name of Sole or Fir YAMAMOTO Tomoaki Address 1-2, Yuraku-cho 1-chome, Chemoay | tion and testify in any legal proceed execute and deliver all papers that method the tothis invention in said assigned onal, continuation, and reissue applity thing possible to aid assignee, its atent protection for this invention in the execution of second assigns. Sorize and assigns. Sorize and request the attorneys I/we storney in this application, to insert application when known. I/we have hereunto set our hand(s). | igns, any facts known to ing, sign all lawful paper ay be necessary or e, its successors and cations, make all rightful successors and assigns, to n the United States, it uch papers shall be borne have empowered in the here in parentheses the filing date and : Date : 07/31/2007 : Citizenship : Japanese |
| me/us respecting this invent when called upon to do so, desirable to perfect the til assigns, execute all divisio oaths and generally do ever obtain and enforce proper policy being understood that any end by the assignee, its succes AND, I/WE HEREBY auth Declaration and Power of At (Application No. application number of said IN TESTIMONY WHEREOF, 1. Full Name of Sole or Fir YAMAMOTO Tomoaki Address 1-2, Yuraku-cho 1-chome, Ch 2. Full Name of Second Assi | tion and testify in any legal proceed execute and deliver all papers that method this invention in said assigned onal, continuation, and reissue applitything possible to aid assignee, its atent protection for this invention in expense incident to the execution of some sors and assigns. Horize and request the attorneys I/we storney in this application, to insert application when known. I/we have hereunto set our hand(s). If the have hereunto set our hand(s). | igns, any facts known to ing, sign all lawful paper ay be necessary or e, its successors and cations, make all rightful successors and assigns, to the United States, it uch papers shall be borne have empowered in the here in parentheses he filing date and : Date : 07/31/2007 : Citizenship : Japanese : Date : |

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P. . WASHINGTON, D.C.

RECORDED: 10/16/2007

PATENT REEL: 020026 FRAME: 0853