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To the Director of the U.S. Patent and Trademark Office, send the attached documents or the new address(es) below.

1. Name of conveying party(ies)

HIROSHI HORIUCHI
HIROSHI AIDA

2. Name and address of receiving party(ies)

Name: KABUSHIKI KAISHA TOSHIBA

Internal Address: _____

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) December 14, 2006 & December 21, 2006

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Joint Research Agreement

☐ Government Interest Assignment

☐ Executive Order 9424, Confirmatory License

☐ Other _____

Street Address: 1-1, Shibaura 1-chome, Minato-ku

City: Tokyo

State: _____

Country: Japan Zip: 105-8001

Additional name(s) & address(es) attached? ☒ Yes ☐ No

4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

11/641,696

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☐ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: PILLSBURY WINTHROP SHAW PITTMAN LLP

Internal Address: P.O. Box 10500

Street Address: 1650 Tysons Boulevard

City: McLean

State: VA Zip: 22102

Phone Number: (703) 770-7900

Fax Number: (703) 770-7901

Email Address: thomas.hilliard@pillsburylaw.com

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

☐ Authorized to be charged by credit card

☒ Authorized to be charged to deposit account

☐ Enclosed

☐ None required (government interest not affecting title)

8. Payment Information

008312-0359224

a. Credit Card Last 4 Numbers _____

Expiration Date _____

b. Deposit Account Number 033975

Authorized User Name _____

9. Signature:

Thomas P. Hilliard Signature

Thomas P. Hilliard, Reg. No. 40330

Name of Person Signing

February 20, 2007

Date

Total number of pages including cover sheet, attachments, and documents: 4

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ATTACHMENT FOR RECORDATION FORM COVER SHEET
PATENTS ONLY (Form PTO-1595)

1. Name of conveying party(ies):

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

2. Name and address of receiving party(ies)

Name: Toshiba Electron Tubes & Devices Co., Ltd.

Internal Address: _____

Street Address: 1385, Shimoishigami, Otawara-shi

City: Tochigi-ken, Japan State: _____ ZIP: _____

Name and address of receiving party(ies)

Name: _____

Internal Address: _____

Street Address: _____

City: _____ State: _____ ZIP: _____

Additional name(s) & address(es) attached?

☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached?

☐ Yes ☒ No

In consideration of value received, I, having a residence as stated below above my name, the sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of an invention described in an application for United States patent entitled:

METHOD FOR MANUFACTURING X-RAY DETECTOR AND X-RAY DETECTOR

sell and assign to

1. KABUSHIKI KAISHA TOSHIBA, a Japanese corporation, having a business address at 1-1, Shibaura 1-chome, Minato-ku, Tokyo 105-8001, Japan; and
2. Toshiba Electron Tubes & Devices Co.,Ltd., a Japanese corporation, having a business address at 1385, Shimoishigami, Otawara-shi, Tochigi-ken, Japan

its successors, assigns or nominees, hereinafter referred to as "Assignee", my entire right, title and interest in and to said invention as disclosed, shown and described in said United States patent application:

(check one) ☒ executed concurrently herewith
☐ executed on _____ ;
☐ Application No. _____ , filed _____ ;

and in and to all applications for patent and patents for invention including all divisions, reissues, continuations, substitutes and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing, continued prosecution, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention.

I hereby grant the following law firm the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the Rules of the U.S. Patent and Trademark Office for recordation of this document.

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22102-4859

ASSIGNMENT

5GG300022-USA-A
(06S1807-1)

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Hiroshi Horiuchi
Hiroshi Horiuchi

December 14, 2006
Date:

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Hiroshi Aida
Hiroshi Aida

December 21, 2006
Date:

PATENT

RECORDED: 02/20/2007

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