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Our Ref.: -4105-97

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To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

1 Hiroaki Kitahara 5
2 6
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Additional name/s of conveying party/ies attached?

3. Nature of conveyance:

Assignment Merger
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 Other

Execution Date: January 23, 2007

2. Name and address of receiving party(ies):

1) Name: PIONEER CORPORATION
Street Address: 4-1, Meguro 1-chome
City: Meguro-ku, Tokyo
State/Country: Japan Zip: 153-8654

2) Name
Street Address:
City:
State: Zip:

Additional name/s & address/es attached? Yes No

4. Application number(s) or patent number(s): This assignment is being filed together with a new application.

A. Patent Application No(s).
(1) 11/630,362
(2)
(3)

Additional numbers attached Yes No

B. Patent No(s).
(1)
(2)
(3)

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

Name: Arthur R. Crawford
Internal Address:
Street Address: Nixon & Vanderhye P.C.
901 North Glebe Road
11th Floor
City: Arlington State: VA Zip: 22203

6. Total number of applications & patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40.00
 Enclosed
 Authorized to be charged to deposit account #14-1140

8. The Commissioner is hereby authorized to charge any deficiency in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper thereafter filed in this application by this firm) to our Account No. 14-1140.

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9. Statements and signature.
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Arthur R. Crawford
Name of Person Signing
Reg. No. 25,327

Signature

February 5, 2007
Date

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02705/2007 GFREY1 00000082 11630362

Total number of pages including original cover sheet, attachments, and document: (40.00 OP) [3]

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, P.O. Box 1450, Alexandria, VA 22313-1450

ASSIGNMENT OF PATENT APPLICATION

(Inventors) Hiroaki KITAHARA of Saitama, Japan

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(Assignee) PIONEER CORPORATION
(Address) of 4-1, Meguro 1-chome, Meguro-ku, Tokyo, Japan

(hereinafter designated as the Assignee) the undersigned's entire right, title and interest for the United States, its territories, dependencies and possessions, and for the country of () in the invention, and all application for patent and any Letters Patent which may be granted therefore, known as

(Other Countries) ()
(Title) (Case No.)
ELECTRON BEAM DRAWING APPARATUS

for which the undersigned has (have) executed on even date herewith an application for patent in the United States of America or, if not on even date, then has executed (on or has already filed in (U.S. appln. Serial No. 11/630,362 filed on). The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.

The undersigned agree(s) to execute all papers and documents necessary in connection with the application or any interference which may be declared and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient and further to perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the firm of NIXON & VANDERHYE P.C. 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 United States Patent Office for recordation of this document. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s).

Date Jan. 23, 2007 Signature of inventor

Hiroaki Kitahara

Hiroaki KITAHARA

Date _____ Signature of inventor

Witnessed by: _____

Date _____

Witnessed by: _____

Date _____

Witnessed by: _____

Date _____