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Docket No.: 49985(2012)

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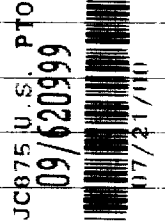
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Tab settings

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): 7.21.00  
**TETSUYA IDE**  
**MASAO URAYAMA**

2. Name and address of receiving party(ies):  
Name: **SHARP KABUSHIKI KAISHA**  
Address: **22-22 Nagaike-cho, Abeno-ku**



Additional names(s) of conveying party(ies)  Yes  No

3. Nature of conveyance:  
 Assignment  M  
 Security Agreement   
 Other No

State/Prov.:  
ZIP:

Execution Date: July 7, 2000 check

ss(es)  Yes  No

4. Application number(s) or registration  
If this document is being filed together  
Patent Application No. Filing

09/620999  
re application is: July 7, 2000  
(s)

Additional numbers  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: **David G. Conlin**  
Registration No. 27026  
Address: **Dike, Bronstein, Roberts & Cushman,**  
**Intellectual Property Practice Group**  
**EDWARDS & ANGELL, LLP, 130 Water Street**  
City: **Boston** State/Prov.: **MA**  
Country: **USA** ZIP: **02109**

6. Total number of applications and patents involved: **1**  
7. Total fee (37 CFR 3.41): \$ **40.00**  
 Enclosed - Any excess or insufficiency should be credited or debited to deposit account  
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8. Deposit account number:  
**04-1105**

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9. Statement 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.*  
**David G. Conlin (Reg. No. 27026)**  
Name of Person Signing [Signature] Signature July 21, 2000 Date

Total number of pages including cover sheet, attachments, and

**3**

Attorney's Docket No.: \_\_\_\_\_

**Assignment of Application**

WHEREAS, I (WE) Tetsuya IDE of 1-29-17, Harajyuku, Totsuka-ku, Yokohama-shi,  
Kanagawa 245-0063, Japan and Masao URAYAMA of 4-4-22-403, Hikonari,  
Misato-shi, Saitama 341-0003, Japan

\_\_\_\_\_, respectively,  
 have invented certain new and useful improvements in: \_\_\_\_\_  
ELECTRON SOURCE AND PROCESS FOR MANUFACTURING THE SAME

for which an application for Letters Patent was executed on \_\_\_\_\_  
 (Application No. \_\_\_\_\_, filed \_\_\_\_\_), and

WHEREAS, Sharp Kabushiki Kaisha  
 (hereinafter referred to as "ASSIGNEE") having a place of business at: 22-22,  
Nagaikecho, Abeno-ku, Osaka-shi, Osaka 545-8522, Japan

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any official of any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be

granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its legal representatives and assigns covenant and any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of DIKE, BRONSTEIN, ROBERTS & CUSHMAN, LLP of 130 Water Street, Boston, Massachusetts 02109-4280 U.S.A. the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: July 7, 2000

Tetsuya IDE

(Signature of inventor) Tetsuya IDE

Date: July 7, 2000

Masao URAYAMA

(Signature of inventor) Masao URAYAMA