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

1. Name of conveying party(ies):

   Sergey Babin and Lee H. Veneklasen

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

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

   Name: Etec Systems, Inc.

   Internal Address: ________________________

   Street Address: 26460 Corporate Avenue

   City Hayward State CA ZIP 94545

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

3. Nature of Conveyance:

   ☑ Assignment □ Merger

   □ Security Agreement □ Change of Name

   Other _______________________

   Execution Date: May 25, 1999

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: May 25, 1999

   A. Patent Application No(s) - NOT YET ASSIGNED

   Title: Apparatus And Method For Forming A Charged Particle Beam Of Arbitrary Shape

   09 328701

   Additional numbers attached? □ Yes □ No

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

   Name: Norman R. Klivans

   Internal Address: SKJERVEN, MORRILL, MacPHERSON,

   FRANKLIN & FRIEL LLP

   Street Address: 25 METRO DRIVE, SUITE 700

   City SAN JOSE State CA ZIP 95110

6. Total number of applications and patents involved: One (1)

7. Total fee (37 CFR 3.41): $40.00

   ☑ Authorized to be charged to Deposit Account 19-2386

   ☑ Charge Deposit Account 19-2386 for any additional fees required for this conveyance and credit deposit account 19-2386 any amounts overpaid

8. 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 T. Millers 37,396

   Name of Person Signing

   Signature

   June 9, 1999

   Date

   Total number of pages comprising cover sheet: 1

06/21/1999 MTH11 00000119 192386 09328701

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PATENT

REEL: 010027 FRAME: 0996
ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, we

Babin, Sergey of Castro Valley, California
Lee H. Veneklasen of Castro Valley, California

hereby sell, assign and transfer to Etec Systems, Inc., a Nevada corporation, having a place of business at 26460 Corporate Avenue, Hayward, CA 94545, its successors and assigns, the entire right, title and interest throughout the world in our invention in

Apparatus And Method For Forming A Charged Particle Beam Of Arbitrary Shape

for which we have executed a United States patent application on or about the date of this assignment, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; we authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from us; we agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, their successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and we request the Commissioner of Patents and Trademarks to issue all patents granted for said invention to the above-named assignee, its successors and assigns.

Executed this 25 day of May, 1999.

(Sergey Babin)

State of California ss.
County of Alameda

On May 25, 1999 before me, Daniel Chaikin (Notary) personally appeared Sergey Babin personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

SIGNATURE OF NOTARY

DANIEL CHAIKIN
Commission # 1163629
Notary Public - California
Alameda County
Executed this 25th day of May, 1999

(Lee H. Veneklasen)

State of California ss.
County of Alameda

On May 25, 1999 before me, Daniel Chaikin (Notary) personally appeared Lee H. Veneklasen personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

SIGNATURE OF NOTARY

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RECORDED: 06/09/1999

PATENT
REEL: 010027 FRAME: 0998