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To the Honorable Commissioner of Patents

102235154

Record the attached original documents or copy thereof.

1. Name of conveying party(ies):  
Mark J. Cattelino and Fred I. Friedlander

9-25-02

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

2. Name and address of receiving party(ies)

Name: Communications & Power Industries, Inc.

Internal Address:

Street Address: 811 Hansen Way

City: Palo Alto State: CA Zip: 94303-0750

Additional Name(s) & address(es) attached?  Yes  No

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other

Execution Date: 9/12/02; 9/12/02

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

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

A. Patent Application No.(s)  
10/192,772

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: Thelen Reid & Priest LLP

Internal Address:

Street Address: P.O. Box 640640

City: San Jose State: CA Zip: 95164-0640

6. Total number of applications and patents involved

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

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number:

50-1698

(Attach duplicate copy of this page if paying by deposit account)

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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 B. Ritchie, Reg. No. 31,562  
Name of Person Signing

Signature

Date

9-19-2002

Total number of pages including cover sheet, attachments, and documents: 6

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

## ASSIGNMENT

WHEREAS, I, Mark J. Cattelino, a citizen of the United States of America, residing at 3101 Maddux Drive, Palo Alto, California, 94303-4034 and Fred I. Friedlander, a citizen of the United States of America, residing at 13540 Saraview Drive, Saratoga, California 95070, have invented a "METHOD AND APPARATUS FOR MAGNETIC FOCUSING OF OFF-AXIS ELECTRON BEAM", for which I have executed application papers for a U.S. patent thereon which was filed on July 9, 2002, serial no. 10/192,772; and

WHEREAS, Communications & Power Industries, Inc., a Delaware corporation, having a place of business located at 811 Hansen Way, Palo Alto, California 94303-0750, is desirous of acquiring the exclusive right, title and interest in and to said invention and in and to the Letters Patent to be granted and issued therefor in the United States of America and its territories and possessions, and all countries foreign thereto;

NOW, THEREFORE, for a valuable consideration, the receipt of which is hereby acknowledged, we Mark J. Cattelino and Fred I. Friedlander, do sell, assign, transfer and set over unto the said Communications & Power Industries, Inc., its successors and assigns, the full and exclusive right, title and interest in and to said invention, and in and to any and all Letters Patent to be granted and issued therefor, not only for, to and in the United States of America, its territories and possessions, but also for, to and in all other countries including all priority rights under the International Convention; and we hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said Communications & Power Industries, Inc., its successors and assigns, in accordance with this Assignment.


ASSIGNMENT CONTINUATION

Re: U.S. Patent Application entitled: "METHOD AND APPARATUS FOR MAGNETIC FOCUSING OF OFF-AXIS ELECTRON BEAM"

Inventor: Mark J. Cattelino

Filing date: July 9, 2002

WITNESS MY HAND at Palo Alto, California this 12 day of September, 2002.

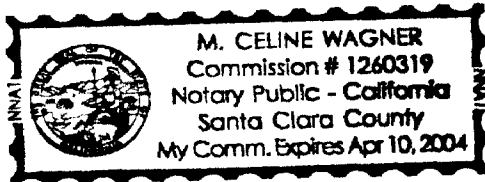
  
Mark J. Cattelino

STATE OF CALIFORNIA )  
COUNTY OF Santa Clara ) ss.

On this 12 day of September, 2002, before me, M. Celine Wagner, a Notary Public, personally appeared Mark J. Cattelino, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person/s whose name is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she~~/~~they~~ executed the same in his/~~her~~/~~their~~ authorized capacities, and that by his/~~her~~/~~their~~ signature/s on the instrument the person/s or the entity upon behalf of which the person/s acted, executed the instrument.

WITNESS my hand and official seal.

  
NOTARY PUBLIC



ASSIGNMENT CONTINUATION

Re: U.S. Patent Application entitled: "METHOD AND APPARATUS FOR MAGNETIC FOCUSING OF OFF-AXIS ELECTRON BEAM"

Inventor: Fred I. Friedlander

Filing date: July 9, 2002

WITNESS MY HAND at Palo Alto, California this 12<sup>th</sup> day of September, 2002.

Fred I. Friedlander  
Fred I. Friedlander

STATE OF CALIFORNIA )  
COUNTY OF Santa Clara ) ss.

On this 12 day of September, 2002, before me, M. Celine Wagner, a Notary Public, personally appeared Fred I. Friedlander, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person/s whose name is/are subscribed to the within instrument and acknowledged to me that he/~~she~~/they executed the same in his/~~her~~/their authorized capacities, and that by his/~~her~~/their signature/s on the instrument the person/s or the entity upon behalf of which the person/s acted, executed the instrument.

WITNESS my hand and official seal.

M. Celine Wagner  
NOTARY PUBLIC

