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U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

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

## 1. Name of conveying party(ies):

Leonard J. Mahoney, Carl W. Almgren,  
Gregory A. Roche, William W. Saylor,  
William D. Sproul, and Hendrik V. Walde

8-14-03

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

## 3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

8/14/2003

Execution Date: \_\_\_\_\_

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

Name: Advanced Energy Industries, Inc.

Internal Address: \_\_\_\_\_

Street Address: 1625 Sharp Point Drive

City: Fort Collins State: CO Zip: 80525

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: 8/14/2003

A. Patent Application No.(s) \_\_\_\_\_

B. Patent No.(s) \_\_\_\_\_

Additional numbers attached? ☐ Yes ☒ No

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

Name: John D. Pirnot

Internal Address: \_\_\_\_\_

Street Address: 1625 Sharp Point Drive

City: Fort Collins State: CO Zip: 80525

6. Total number of applications and patents involved: ☒ 1

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

- ☐ Enclosed  
☒ Authorized to be charged to deposit account

## 8. Deposit account number:

501539

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## 9. Signature.

John D. Pirnot

Name of Person Signing

Signature

8/14/2003

Date

Total number of pages including cover sheet, attachments, and documents: ☒ 3

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

PATENT  
 REEL: 014400 FRAME: 0427

08/21/2003 ECOMPER 00000050 501539 10640892  
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 10/640892  
 08/14/03

## ASSIGNMENT

WHEREAS, We, Leonard J. Mahoney of 3831 Arctic Fox Drive, Fort Collins, CO 80525, Carl W. Almgren of 2925 Garrett Drive, Fort Collins, CO 80526, Gregory A. Roche of 811 Hilldale Drive, Fort Collins, CO 80526, William W. Saylor of 306 North Shore Circle, Windsor, CO 80550, William D. Sproul of 3324 South Lemay Avenue, Fort Collins, CO 80525 and Hendrik V. Walde of 2707 Balmoral Court, Fort Collins, CO 80525 have invented a certain new and useful "Sensor Array for Measuring Plasma Characteristics in Plasma Processing Enviroments" for which a patent application is being made.

WHEREAS, Advanced Energy Industries, Inc., of 1625 Sharp Point Dr., Fort Collins, CO 80525 a Delaware corporation fully organized and existing under the laws of the State of Delaware is desirous of acquiring the entire right, title and interest therein and thereto;

NOW, THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) and certain other good and valuable consideration to us in hand paid, the receipt of which is hereby acknowledged, we, the said Inventors, and by these presents do sell, assign and transfer unto the said Advanced Energy Industries, Inc, its successors, legal representatives and assigns, our entire right, title and interest in and to the said invention and the aforesaid patent application, for the territory of the United States of America and for all foreign countries and to all Letters Patent, continuations and reissues, and extensions to be obtained therefore; and we further agree to cooperate with the assignee hereunder in the obtaining and sustaining of any and all such Letters Patent, but at the expense of said assignee.

We do further agree to execute all applications for patent, assignments and other appropriate documents and to perform all acts and to do all things necessary to make this Agreement effective and to perfect all right, title and interest in and to said discoveries, improvements or inventions in Advanced Energy Industries, Inc. The Commissioner of Patents is hereby authorized and requested to issue the letters Patent solely in accordance with the terms of this Assignment to Advanced Energy Industries, Inc., its successors, legal representatives and assigns, as the assignee of the entire right, title and interest therein.

  
Leonard J. Mahoney

Gregory A. Roche  
Gregory A. Roche

William W. Sproul  
D.

) ss.  
 COUNTY OF LARIMER )

COUNTY OF LARIMER )

Given under my hand and seal of office this 14 day of August, 2003.

Given under my hand and seal of office this 14 day of August, 2003.

Kathleen M. Marshall

Notary Public

My Commission expires: 3/3/06