

03-27-2001

FORM PTO-1619A  
Expires 06/30/99  
OMB 0651-0027



U.S. Department of Commerce  
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**PATENT**

3.12.01

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- ☒ Assignment ☐ Security Agreement  
☐ License ☐ Change of Name  
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**PATENT**  
**REEL: 011612 FRAME: 0246**

**Correspondent Name and Address**

Area Code and Telephone Number

617-854-4000

Name Jerry Cohen

Address (line 1) Perkins, Smith & Cohen, LLP

Address (line 2) One Beacon Street

Address (line 3)

Address (line 4) Boston, Massachusetts 02108-3106

**Pages**

Enter the total number of pages of the attached conveyance document including any attachments

# 3

**Application Number(s) or Patent Number(s)**

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Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

09/727,810

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

**Patent Cooperation Treaty (PCT)**

Enter PCT application number  
only if a U.S. Application  
Number as not been assigned.

PCT

PCT

PCT

PCT

PCT

PCT

**Number of Properties**

Enter the total number of properties involved.

# 1

**Fee Amount**

Fee Amount for Properties Listed (37 CFR 3.41):

\$ 40.00

Method of Payment:

Enclosed ☒

Deposit Account ☐

Deposit Account

Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

# 03-2410 (Order No.  
11460-105)

Authorization to charge additional fees:

Yes ☒

No ☐

**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. Charges to deposit account are authorized, as indicated herein.

Jacob N. Erlich, Reg. No. 24,338

Name of Person Signing

Signature

Date

3-8-2001

## ASSIGNMENT

WHEREAS, we, Richard P. Torti, residing at 9 Maud Graham Circle, Burlington, MA 01803, and Jerald P. Dykstra, residing at 3810 Hidden Estates Drive, Austin, TX 78727-1829 (hereinafter referred to collectively as "Assignors"), have jointly made an invention entitled GAS CLUSTER ION BEAM LOW MASS ION FILTER, for which an application for a United States Patent was filed on December 1, 2000 and accorded Serial No. 09/727,810, and which claims priority to U.S. Provisional Application Serial No. 60/169,345 filed December 6, 1999.

WHEREAS, Epion Corporation, a corporation organized and existing under the laws of the Commonwealth of Massachusetts, having its principal place of business at 37 Manning Road, Billerica, MA 01821 (hereinafter referred to as "Assignee"), is desirous of acquiring right, title and interest in said invention.

NOW, THEREFORE, in consideration of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, Assignors by these presents, do sell, assign and transfer to Assignee, Assignors entire right, title and interest, for the United States of America and its possessions and territories and for all foreign countries, in and to said invention, including all rights of priority created and conferred by any treaty or international convention which is available in connection with said invention, including the right to apply for patent rights, U.S. or foreign, and in any continuations, divisions, substitutes, renewals, reissues or other applications filed in the U.S. or abroad (including multinational filing arrangements of all kinds), and in any U.S. or foreign patents issued on any such applications and reissues, extensions and renewals thereof, to be held and enjoyed by Assignee, for its own use and behalf and for its successors and assigns, to the full ends of the terms or extended terms for which any Letters Patents or the like may be granted, as fully and entirely as the same would have been held by Assignors had this sale, assignment and transfer not been made.

Assignors hereby authorize and request the Commissioner of Patents of the United States, and any official of any country or countries (including multinational filing arrangements of all kinds), whose duty it is to receive and/or examine applications for patents or similar industrial property, issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to Assignee, its successors and assigns, in accordance with the terms of this instrument.

Assignors covenant with Assignee, its successors, assigns, and legal representatives that Assignors have full right to convey the entire interest herein assigned, and that Assignors have not executed any agreement in conflict herewith and will not execute any agreement or conveyance in conflict herewith.

Assignors further covenant and agree to communicate to Assignee, its successors, legal representatives and assigns, any facts known to Assignors respecting said invention, and testify in any legal proceeding, sign all lawful papers, including, without limitation, application papers, assignments, powers of attorney, declarations, and other instruments, execute all divisional, continuing, substitute, reissue, renewal and foreign applications, make all truthful oaths, declarations and statements, and generally do everything reasonably requested of Assignors by Assignee, or its successors or assigns to aid Assignee, its successors or assigns, to obtain, enforce and/or exploit said invention.

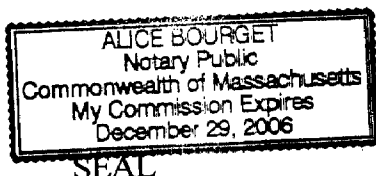
Executed this 23<sup>th</sup> day of February, 2001.

Richard P. Torti  
Richard P. Torti

Commonwealth of Massachusetts, )  
County of Middlesex ) ss.

Before me appeared Richard P. Torti on this 20<sup>th</sup> day of Feb., 2001, who signed this Assignment document, and who acknowledges that he signed it as a free act on his behalf.

Alice Bourget  
Notary Public  
My commission expires 12/29/06



Executed this 20<sup>th</sup> day of February, 2001.

Jerald P. Dykstra  
Jerald P. Dykstra

Commonwealth of Massachusetts, )  
County of Middlesex ) ss.

Before me appeared Jerald P. Dykstra on this 20<sup>th</sup> day of Feb., 2001, who signed this Assignment document, and who acknowledges that he signed it as a free act on his behalf.

Alice Bourget  
Notary Public  
My commission expires 12/29/06

