



08-27-2002



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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): Barry M. Zide Vincent DiFilippo Additional name(s) of conveying party(ies) attached? [] Yes [] No

8-20-02

2. Name and address of receiving party(ies) Name: Epion Corporation Internal Address: Street Address: 37 Manning Road City: Billerica State: MA Zip: 01821 Additional name(s) & address(es) attached? [] Yes [X] No

3. Nature of conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other Execution Date: August 7, 2002

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: A. Patent Application No.(s) 10/142,137 B. Patent No.(s) Additional numbers attached? [] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed: Name: Michelle J. Burke Internal Address: Perkins, Smith & Cohen, LLP Street Address: One Beacon Street, 30th Fl. City: Boston State: MA Zip: 02108

6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41) \$ 40.00 [X] Enclosed [] Authorized to be charged to deposit account 8. Deposit account number: Deficiencies Only 03-2410 Order No.: 11460-154

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9. Signature. Michelle J. Burke Name of Person Signing Signature Date August 12, 2002 Total number of pages including cover sheet, attachments, and documents: 1

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

ASSIGNMENT

WHEREAS, we, Barry M. Zide, residing at 15 Cottage Street, Medway, MA, 02053 and Vincent DiFilippo, residing at 71 Princeton Street, Unit 301, North Chelmsford, MA 01863 (hereinafter referred to collectively as "Assignors"), have jointly made an invention entitled METHOD AND SYSTEM FOR IMPROVING THE EFFECTIVENESS OF ARTIFICIAL HIP JOINTS BY THE APPLICATION OF GAS CLUSTER ION BEAM TECHNOLOGY, for which an application for a United States Patent was filed on May 9, 2002 and accorded serial number 10/142,137, and which claims priority to U.S. Provisional Application Serial No. 60/289,737 filed May 9, 2001.

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.

