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(Rev. 03/01)	10220	1633	U.S. Patent and Trademark Office	
OMB No. 0651-0027 (exp. 5/31/2002) Tab settings ⇔ ⇔ ♥ ▼	▼	V	Y Y Y	
To the Honorable Commissioner of Patents	and Trademarks: F	Please record the attac	ched original documents or copy thereof.	
1. Name of conveying party(ies): Barry M. Zide Vincent DiFilippo	20.02	Name: Ep	dress of receiving party(ies) ion Corporation ess:	
Additional name(s) of conveying party(es) attached?	Yes No			
3. Nature of conveyance:				
X Assignment Merg				
	nge of Name			
Other				
		City: Bille	rica State: MA Zip: 01821	
Execution Date: August 7, 2002		Additional name(s) & address(es) attached? Yes X No	
4. Application number(s) or patent number((s):			
If this document is being filed together w	ith a new applic	cation, the execution	on date of the application is:	
A. Patent Application No.(s) 10/142,	137		(s)	
Addi	itional numbers atta	ached? Yes X	No	
Name and address of party to whom corconcerning document should be mailed:	respondence	6. Total number o	of applications and patents involved:	
Name: Michelle J. Burke		7. Total fee (37 C	SFR 3.41)\$40.00	
		X Enclosed		
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Perkins, Smith & Cohen, L	L <u>P</u>			
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9. Signature.				
Michelle J. Burke	N	Jechelle !	Ruh August 12, 2002	
Name of Person Signing	1	Signature	Date	
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missioner of Palents & Trademarks, Box Assignments Washington, D.C. 20231

PATENT REEL: 013214 FRAME: 0149

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.

PATENT REEL: 013214 FRAME: 0150 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 $\boxed{77}$ day of $\boxed{\text{fig.}}$, 2002.

Barry M. Zi

Commonwealth of Massachusetts

County of Middlesex

Before me appeared Barry M. Zide on this 7^{th} day of 0, 2002, who signed this Assignment document, and who acknowledges that he signed it as a free act on his behalf.

Notary Public

My commission expires _

ALICE BOURGET
Notary Public
Commonwealth of Massachusetts
My Commission Expire*
December 29, 2004



Executed this	day of Ava	_, 2002.
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Vincent DiFilippo

Commonwealth of Massachusetts)) ss

County of Middle sizx

Before me appeared Vincent DiFilippo on this $2^{\frac{1}{2}}$ day of 2002, who signed this Assignment document, and who acknowledges that he signed it as a free act on his behalf.

Mice Bourget
Notary Public

My commission expires

ALICE BOURGET
Notary Public
Commonwealth of Massachusetts
My Commission Expires
December 29, 2006



RECORDED: 08/20/2002