ORM PTO-1595 RE UD-1/-2	HEET U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office
DMB No. 0651-0011 (exp. 4/94) Tab Settings ⇔ ⇔ ▼ 1,007,104	D. E. M. (1982)
To the Honorable Commissioner of Patents and Trademarks:	lease record the accepted original documents or copy thereof.
. Name of conveying party(ies):	2. Name and address of receiving party(ies)
Samih BATARSEH, Kent PERRY and Brian C. GAHAN	Name: GAS TECHNOLOGY INSTITUTE
5.11.04	Internal Address:
additional name(s) of conveying party(ies) attached? □Yes ■ No	
. Nature of conveyance:	Street Address: 1700 South Mount Prospect Road
■ Assignment □ Merger	
□ Security Agreement □ Change of Name	
□ Other	City: Des Plaines State: Illinois Zip: 60018
xecution Date: 30 April 2004	Additional name(s) & address(es) attached? ☐ Yes ■ No
. Application number(s) or patent number(s): If this document is being filed together with a new application, the e	execution date of the application is: 30 April 2004
A. Patent Application No.(s)	B. Patent No.(s)
No 843535 Additional numbers atta	ached? □ Yes ■ No
. Name and address of party to whom correspondence	Total number of applications and patents involved:
concerning document should be mailed:	
Name: Mark E. Fejer	7. Total fee (37 CFR 1.21(h))\$ 40.00
Internal Address: Gas Technology Institute	□ Enclosed
	■ Authorized to be charged to deposit account
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ASSIGNMENT

WHEREAS, We the following inventors

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2. Name: Kent PERRY

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Citizenship: United States of America

hereinafter referred to as ASSIGNORS, have invented certain new and useful improvements in an invention entitled:

LASER SPECTROSCOPY/CHROMATOGRAPHY DRILL BIT AND METHODS

which is described and claimed in an application for Letters Patent of the United States executed by ASSIGNORS on even date herewith, and naming as inventors Samih BATARSEH, Kent PERRY and Brian C. GAHAN; said improvements as described and claimed in said application for Letters Patent of the United States, being hereinafter referred to as said "Invention"; and

WHEREAS, GAS TECHNOLOGY INSTITUTE, a not-for-profit corporation duly organized and existing under and by virtue of the laws of the State of Illinois and having its principal office and place of business at 1700 South Mount Prospect Road, Des Plaines, Illinois 60018, hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNORS' entire rights, title and interest in and to said Invention, and in, to and under Letters Patent therefor in the United States and countries foreign thereto;

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PATENT REEL: 015322 FRAME: 0746 NOW THEREFORE BE IT KNOWN THAT, for and in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNORS have sold, assigned, transferred and set over and by these presents do hereby sell, assign, transfer and set over to and unto ASSIGNEE, its successors and assigns ASSIGNORS' entire rights, title and interest in and to said Invention, and in, to and under the above-identified application and all other applications for Letters Patent of the United States and countries foreign thereto, and in, to and under all divisions, reissues, continuations, extensions and reexaminations thereof, and covenant that ASSIGNORS have the full right so to do; and the Commissioner of Patents is hereby authorized and requested to issue all United States Letters Patent on said Invention included herein to ASSIGNEE, as assignee of ASSIGNORS' entire interest.

ASSIGNORS further agree to communicate to ASSIGNEE or its representatives or agents all facts and information known or available to ASSIGNORS regarding said Invention including evidence for interference purposes or for other legal proceedings, whenever requested; to testify in any interference or other proceedings; to execute and deliver, on request, all lawful papers including original, divisional, continuing and reissue applications, renewals, assignments, powers of attorney, declarations, oaths, affidavits, depositions, etc.; and to generally do everything possible to aid ASSIGNEE, its successors and assigns, but at the expense of ASSIGNEE, in obtaining and enforcing proper protection for said Invention, in the United States and countries foreign thereto.

9-30-04

Date

4-30-04

Date

Samih BATARSEH

Brian C GAHAN

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PATENT
RECORDED: 05/11/2004 REEL: 015322 FRAME: 0747