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Execution Date: <u>September 15, 2000 and March 15, 2001</u>			
<b>4. Application number(s) or patent number(s):</b> If this document is being filed together with a new application, the execution date of the application is _____ A. Patent Application No.(s) <u>09/680,077</u> B. Patent No.(s) _____ Additional numbers attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
<b>5. Name and address of party to whom correspondence concerning document should be mailed:</b>  John J. Marshall Drinker Biddle & Reath LLP One Logan Square 18 <sup>th</sup> & Cherry Streets Philadelphia, PA 19103-6996  Attorney Docket No. <u>9585-2</u>		<b>6. Total number of applications and patents involved:</b> <u>one</u> <b>7. Total fee (37 CFR 3.41)</b> <u>\$40.00</u> <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> authorized to be charged to deposit account <b>8. Deposit Account Number:</b> <u>500573</u>	

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John J. Marshall

Name of Person Signing

John J. Marshall

Signature

26 April 2001

Date

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PATENT  
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# ASSIGNMENT

1. Names and Addresses of individuals assigning their patent rights, hereinafter referred to as "ASSIGNORS":

Alexander S. Zharkov - Pribytkov St., 1, Biysk, Altai Region, Russia 659322,  
Vladimir V. Kodolov - Kutuzov St., 11/2, fl. 228, Biysk, Altai Region, Russia 659302,  
Yuri I. Maksimovich - Dekabristov St., 12, fl. 164, Biysk, Altai Region, Russia 659322,  
Victor I. Maryash - Dekabristov St., 2/1, Fl. 83, Biysk, Altai Region, Russia 659322,  
Ivan N. Gayvoronskii - Levashova St., 31, Fl. 50, Ramenskoye, Moscow Region, Russia 140105  
Nickolai I. Griбанov - Kommunisticheskaya St., 18, Fl. 69, Ramenskoye, Moscow Region, Russia, 140106  
Vasilii P. Zalogin - Kosmonavtov St., 35, Fl. 2, Ramenskoye, Moscow Region, Russia 140106,  
Vladimir d. Kroshchenko- Kommunisticheskaya St., 37, Fl. 41, Ramenskoye, Moscow Region, Russia 140106,  
Vladimir I. Pavlov - Kommunisticheskaya St., 37, Fl. 44, Ramenskoye, Moscow Region, Russia 140106  
Norayr S. Sanasaryan - Dobroslobodskaya St., 12, Fl. 104, Moscow, Russia 107066,

2. Invention and Patent Rights to be Assigned:

The ASSIGNORS have made a new and useful invention which is the subject matter of a United States provisional patent application, Serial No. 60/194,678, entitled SOLID PROPELLANT GAS GENERATOR WITH ADJUSTABLE PRESSURE PULSE FOR WELL OPTIMIZATION, and of a United States utility patent application, Serial No. 09/680,077 of the same subject matter. This assignment is of the United States provisional and utility patent applications and any patents issued therefrom, either directly or as divisions, continuations or reissues.

3. Entity acquiring the invention and patent rights, hereinafter referred to as "ASSIGNEE":

The Federal Research & Production Center Altai is a Russian Federation corporation having a place of business at Pribytkov St., 1, Biysk, Altai Region, Russia 659322, is the ASSIGNEE. Now and at the time the invention was made, the invention was subject to an obligation by ASSIGNORS to assign their entire right, title and interest in any United States or other national patent applications to ASSIGNEE.

4. Assignment:

NOW, THEREFORE, in consideration of this obligation, we, the undersigned ASSIGNORS, hereby assign unto the ASSIGNEE, the whole and entire right, title and interest:

in and to said invention as described in the above U.S. patent applications for the territory of the United States and its possessions, and

in and to the above patent applications and any and all United States Letters Patent which may be granted on said applications including divisions, continuations and reissues.

5. Cooperation to sign necessary documents:

ASSIGNORS agree to execute, whenever requested, all patent applications, assignments, lawful oaths and any other papers which ASSIGNEE may deem necessary or desirable for securing or maintaining all the Letters Patent hereby assigned or agreed to be assigned, without further compensation. ASSIGNORS hereby authorize any member of the law firm Seidel, Gonda, Lavorgna, & Monaco, P.C. to write-in the serial number of the U.S. utility patent application in paragraph 2 of this assignment before it is recorded.

6. Execution:

The ASSIGNORS may execute this assignment together or in counterpart copies.

Alexander S. Zharkov

Alexander S. Zharkov

Date: 09.15.2000

Vladimir V. Kodolov

Vladimir V. Kodolov

Date: 09.15.2000

Yuri I. Maksimovich

Yuri I. Maksimovich

Date: 09.15.2000

Victor I. Maryash

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Date: 09.15.2000

Ivan N. Gayvoronskii  
Ivan N. Gayvoronskii

Date: 15.03.2001

Nickolai I. Gribanov  
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Date: 15.03.2001

Vladimir D. Kroshchenko  
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Vladimir I. Pavlov  
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Norayr S. Sanasaryan  
Norayr S. Sanasaryan

Date: 15.03.2001