

# PATENT ASSIGNMENT

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| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                                 |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                                     |
| <b>CONVEYING PARTY DATA</b>   |  |
| <b>Name</b>   | <b>Execution Date</b>                          |
| Steven D. Nelson  | 08/20/2009                                     |
| Robert S. Ritchie   | 08/08/2009                                     |
| <b>RECEIVING PARTY DATA</b>   |  |
| <b>Name:</b>  | Pacific Scientific Energetic Materials Company |
| <b>Street Address:</b>  | 24908 Kearney Avenue                           |
| <b>City:</b>  | Valencia                                       |
| <b>State/Country:</b>   | CALIFORNIA                                     |
| <b>Postal Code:</b>   | 91355  |
| <b>PROPERTY NUMBERS Total: 1</b>  |  |
| <b>Property Type</b>  | <b>Number</b>                                  |
| <b>Application Number:</b>  | 12370582                                       |
| <b>CORRESPONDENCE DATA</b>  |  |
| <b>Fax Number:</b>  | (206)359-9219                                  |
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| <b>ATTORNEY DOCKET NUMBER:</b>  | 61872.8014 US01                                |
| <b>NAME OF SUBMITTER:</b>   | Scott J. Anchell                               |
| <b>Total Attachments: 3</b><br>source=61872.8014 US01 Exec Assignment#page1.tif<br>source=61872.8014 US01 Exec Assignment#page2.tif<br>source=61872.8014 US01 Exec Assignment#page3.tif |  |

OP \$40.00 12370582

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**PATENT**  
**REEL: 023478 FRAME: 0057**

## ASSIGNMENT BY INVENTORS

This Assignment is by Steven D. Nelson and Robert S. Ritchie (the "Assignors"), residing at 412 Olive Avenue, Huntington Beach, California 92648; and 23331 Agramonte Drive, Newhall, California 91321, respectively. The Assignors have invented one or more certain inventions (the "Invention(s)") described in a Patent application for Letters Patent of the United States entitled ARM-FIRE DEVICES AND METHODS FOR PYROTECHNIC SYSTEMS (the "Application"), already filed on February 12, 2009 as U.S. Application No. 12/370,582.

Pacific Scientific Energetic Materials Company, having a place of business at 24908 Kearney Avenue, Valencia, CA 91355 ("Assignee"), desires to acquire the entire right, title and interest in and to the Invention(s) and the Application, and in and to any patents (collectively, "Patents") that may be granted for the Invention(s) in the United States or in any foreign countries.

For valuable consideration, the receipt and sufficiency of which Assignors acknowledge, Assignors hereby sell, assign, and transfer to Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to: the Invention(s), the Application, and any Patents; any divisions, continuations, and continuations-in-part of the Application and any other application claiming priority rights from the Application; any reissues, reexaminations, or extensions of any and all Patents; the right to file foreign applications directly in the name of Assignee; and the right to claim priority rights deriving from the Application (collectively, the "Rights"). Assignors warrant that Assignors own the Rights, and that the Rights are unencumbered. Assignors also agree to not sign any writing or do any act conflicting with this assignment, and, without further compensation, sign all documents and do such additional acts as Assignee deems necessary or desirable to: perfect Assignee's enjoyment of the Rights; conduct proceedings regarding the Rights, including any litigation or interference proceedings; or perfect or defend title to the Rights. Assignors request the Commissioner of Patents to issue any Patent of the United States that may be issued on the Invention(s) to Assignee. This Assignment may be executed in counterparts.

  
\_\_\_\_\_  
Steven D. Nelson

Date: 5/22/04

United States of America )  
State of CA ) ss.  
County of Orange )

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me  
personally came Steven D. Nelson, to me known to be the individual  
described in and who executed the foregoing instrument, and acknowledged execution  
of the same.

\_\_\_\_\_  
Notary Public

  
Robert S. Ritchie

Date: Aug 8, 2009

United States of America )  
State of California ) ss.:  
County of US )

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me  
personally came Robert S. Ritchie, to me known to be the individual  
described in and who executed the foregoing instrument, and acknowledged execution  
of the same.

\_\_\_\_\_  
Notary Public