

PATENT ASSIGNMENT

Electronic Version v1.1  
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SUBMISSION TYPE:	NEW ASSIGNMENT																														
NATURE OF CONVEYANCE:	NUNC PRO TUNC ASSIGNMENT																														
EFFECTIVE DATE:	01/14/2009																														
CONVEYING PARTY DATA																															
<table border="1"><tr><td>Name</td><td>Execution Date</td></tr><tr><td>Wells Fargo Foothill, Inc.</td><td>11/10/2009</td></tr></table>		Name	Execution Date	Wells Fargo Foothill, Inc.	11/10/2009																										
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RECEIVING PARTY DATA																															
<table border="1"><tr><td>Name:</td><td>Special Devices, Incorporated</td></tr><tr><td>Street Address:</td><td>14370 White Sage Road</td></tr><tr><td>City:</td><td>Moorpark</td></tr><tr><td>State/Country:</td><td>CALIFORNIA</td></tr><tr><td>Postal Code:</td><td>93021</td></tr></table>		Name:	Special Devices, Incorporated	Street Address:	14370 White Sage Road	City:	Moorpark	State/Country:	CALIFORNIA	Postal Code:	93021																				
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PROPERTY NUMBERS Total: 49																															
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>11339159</td></tr><tr><td>Application Number:</td><td>12009568</td></tr><tr><td>Application Number:</td><td>11414247</td></tr><tr><td>Application Number:</td><td>09392967</td></tr><tr><td>Application Number:</td><td>09702620</td></tr><tr><td>Application Number:</td><td>09733548</td></tr><tr><td>Application Number:</td><td>09656325</td></tr><tr><td>Application Number:</td><td>10158677</td></tr><tr><td>Application Number:</td><td>10188004</td></tr><tr><td>Application Number:</td><td>11057271</td></tr><tr><td>Application Number:</td><td>11100808</td></tr><tr><td>Application Number:</td><td>11811568</td></tr><tr><td>Application Number:</td><td>11715106</td></tr><tr><td>Patent Number:</td><td>6508175</td></tr></tbody></table>		Property Type	Number	Application Number:	11339159	Application Number:	12009568	Application Number:	11414247	Application Number:	09392967	Application Number:	09702620	Application Number:	09733548	Application Number:	09656325	Application Number:	10158677	Application Number:	10188004	Application Number:	11057271	Application Number:	11100808	Application Number:	11811568	Application Number:	11715106	Patent Number:	6508175
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PATENT  
REEL: 023519 FRAME: 0617

Patent Number:	6578487
Patent Number:	6612241
Patent Number:	6644198
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Patent Number:	7347145
Patent Number:	7464647
Patent Number:	7464648
Patent Number:	7533613
Patent Number:	6126764
Patent Number:	5099762
Patent Number:	5993578

**PATENT**

**REEL: 023519 FRAME: 0618**

**CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:

P401119

NAME OF SUBMITTER:

Alexander R. Schlee

Total Attachments: 6

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## ASSIGNMENT OF PATENTS AND TRADEMARKS

ASSIGNMENT OF PATENTS AND TRADEMARKS ("Assignment"), dated as of November 9, 2009 by WELLS FARGO FOOTHILL, INC. (fka FOOTHILL CAPITAL CORPORATION) ("Assignor"), in favor of SPECIAL DEVICES, INCORPORATED, a Delaware corporation ("Assignee").

Whereas, THE PARTIES HERETO ENTERED in the past into a certain Loan and Security Agreement dated as of June 27, 2001 and of October 6, 2008 by and among Assignor and Assignee, (including all annexes, exhibits, or schedules thereto, and as from time to time amended, restated, supplemented or otherwise modified, the "Loan Agreement"). The loan that was the subject of the Loan Agreement was paid off entirely by January 14, 2009. Since the loan that was the subject of the Loan Agreement has been paid off, all patents, patent applications and trademarks that were assigned as collateral pursuant to the Loan Agreement are now transferred back to Assignee.

NOW, THEREFORE, in consideration of the premises and mutual covenants herein contained and for and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor hereby agrees as follows:

ASSIGNMENT OF PATENTS AND TRADEMARKS. Assignor hereby grants, assigns, and conveys to Assignee all of Assignor's right, title and interest (but not the obligation to register) in and to all patents, patent applications, and trademarks that were assigned to Assignor by Assignee pursuant to the Loan Agreement, including without limitations the patents, patent applications and trademarks listed in Schedule A attached hereto and all re-issues, divisions, continuations, renewals, extensions, and continuations-in-part thereof (the "Patents and Trademarks"), all associated goodwill, the right (but not the obligation) to sue for past, present, and future infringements of the Patents and Trademarks and all rights (but not obligations) corresponding thereto including the right to collect and retain all proceeds of such infringement suits. The assignment takes retroactive effect as of January 14, 2009, the date when the loan was paid off entirely. Assignor makes no representation or warranty that Schedule A is a complete list of the Patents and Trademarks or that the Patents and Trademarks are valid, subsisting, or enforceable, and assigns the Patents and Trademarks as is.


This Assignment is made **WITHOUT REPRESENTATION, WARRANTY OR RECOURSE WHATSOEVER, WHETHER EXPRESS OR IMPLIED, AND SPECIFICALLY WITHOUT ANY REPRESENTATION OR WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE**, on the part of Assignor (or any of their respective officers, directors, employees, agents, representatives, attorneys, or Assignor's affiliates or participants or any of the foregoing parties' officers, directors, employees, agents, representatives or attorneys; collectively, the "Assignor Parties"). **WITHOUT LIMITING THE FOREGOING, THIS ASSIGNMENT IS MADE, AND ASSIGNOR TRANSFERS AND CONVEYS THE PATENTS AND TRADEMARKS THEREUNDER, "AS-IS" AND "WHERE-IS" AND ASSIGNOR EXPRESSLY SPECIFICALLY DISCLAIMS AND EXCLUDES**

FROM THIS ASSIGNMENT AND SHALL NOT BE DEEMED TO HAVE MADE, AND BY ACCEPTANCE OF THIS ASSIGNMENT ASSIGNEE SHALL BE DEEMED TO HAVE IRREVOCABLY WAIVED (a) ANY REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PATENTS AND TRADEMARKS AS TO VALUE, DESIGN, OR QUALITY; (b) ANY REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, OF FREEDOM FROM ANY RIGHTFUL CLAIM BY WAY OF INFRINGEMENT OR THE LIKE; (c) ANY IMPLIED REPRESENTATION OR WARRANTY ARISING FROM COURSE OF PERFORMANCE, COURSE OF DEALING OR USAGE OF TRADE WITH RESPECT TO THE PATENTS AND TRADEMARKS; (d) ANY REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, REGARDING THE CONDITION OF THE PATENTS AND TRADEMARKS; (e) ANY OBLIGATION OR LIABILITY OF ASSIGNOR ARISING IN CONTRACT OR IN TORT (INCLUDING STRICT LIABILITY OR SUCH LIABILITY AS MAY ARISE BY REASON OF SUCH PERSON'S NEGLIGENCE) ACTUAL OR IMPUTED, OR IN STRICT LIABILITY, INCLUDING ANY OBLIGATION OR LIABILITY FOR LOSS OF USE, REVENUE OR PROFIT, WITH RESPECT TO THE PATENTS AND TRADEMARKS OR FOR ANY LIABILITY OF ASSIGNOR TO ANY THIRD PARTY OR ANY OTHER DIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGE WHATSOEVER WITH RESPECT TO THE PATENTS AND TRADEMARKS; AND (f) EXCEPT AS EXPRESSLY PROVIDED HEREINABOVE ANY OTHER REPRESENTATION OR WARRANTY WHATSOEVER, EXPRESS OR IMPLIED.

IN WITNESS WHEREOF, Assignor has caused this Assignment of Patents and Trademarks to be executed and delivered by its duly authorized officer as of the date first set forth above.

WELLS FARGO FOOTHILL, INC., (fka FOOTHILL CAPITAL CORPORATION)

Executed this date of November 10, 2009

By:   
Name: Patrick McCormack  
Title: Vice President

## **SCHEDULE A**

### **ASSIGNMENT OF PATENTS AND TRADEMARKS**

<b>Asset Type</b>	<b>Country</b>	<b>Description/Title</b>	<b>Application No.</b>	<b>Patent or Publication Number</b>	<b>Record Owner</b>
Patent	US	Pyrotechnic Initiator for Use in High Pressure Environments	09/703,063	6,508,175	Wells Fargo Foothill, Inc.
Patent	US	Pyrotechnic Initiator with a Narrowed Sleeve Retaining a Pyrotechnic Charge and Methods of Making Same	09/733,755	6,578,487	Wells Fargo Foothill, Inc.
Patent	US	Pyrotechnic Initiator with Center Pin having a Circumferential Notch Retention Feature	10/298,107	6,612,241	Wells Fargo Foothill, Inc.
Patent	US	Integral Pyrotechnic Initiator with Molded Connector	09/703,097	6,644,198	Wells Fargo Foothill, Inc.
Patent	US	Axial Spin Method of Distributing Pyrotechnic Charge in an initiator	10/188,009	6,698,356	Wells Fargo Foothill, Inc.
Patent	US	Multi-Unit Pyrotechnic Initiation System	10/400,768	6,763,764	Wells Fargo Foothill, Inc.
Patent	US	Initiator with a Bridgewire Configured in an Enhanced Heat-Sinking Relationship	10/188,010	6,779,456	Wells Fargo Foothill, Inc.
Patent	US	Detonator Utilizing Selection of Logger Mode or Blaster Mode Based on Sensed	10/620,111	6,789,483	Wells Fargo Foothill, Inc.
Patent	US	Initiator with an Internal Sleeve Retaining a Pyrotechnic Charge and Methods of Making	10/188,003	6,848,365	Wells Fargo Foothill, Inc.
Patent	US	Constant-Current, Rail-Voltage Regulated Charging Electronic Detonator	10/620,115	6,892,643	Wells Fargo Foothill, Inc.
Patent	US	Pyrotechnic Initiator Having Output Can with Encapsulation Material Retention Feature	10/295,202	6,907,827	Wells Fargo Foothill, Inc.
Patent	US	Pyrotechnic Initiator with On-Board Control Circuitry	09/899,398	6,915,744	Wells Fargo Foothill, Inc.
Patent	US	Initiator with Slip Plane Between and Ignition Charge and an Output Charge	10/188,402	6,941,867	Wells Fargo Foothill, Inc.
Patent	US	Gas Generant Propellant	10/389,330	6,964,715	Wells Fargo Foothill, Inc.

Patent	US	Dynamic Baseline in Current Modulation-Based Communication	10/736,166	6,988,449	Wells Fargo Foothill, Inc.
Patent	US	Initiator with an Internal Sleeve Retaining a Pyrotechnic Charge and Methods of Making Same	10/903,660	7,004,071	Wells Fargo Foothill, Inc.
Patent	US	Method of Identifying an Unknown or Unmarked Slave Device such as in an Electronic Blasting System	10/619,949	7,017,494	Wells Fargo Foothill, Inc.
Patent	US	Pyrotechnic Initiator Having output Can with Encapsulation material Retention Feature	11/097,850	7,047,884	Wells Fargo Foothill, Inc.
Patent	US	Pre-Fire Countdown in an Electronic Detonator and Electronic Blasting System	10/619,526	7,054,131	Wells Fargo Foothill, Inc.
Patent	US	Current Modulation-Based Communication from Slave Device	11/049,574	7,082,877	Wells Fargo Foothill, Inc.
Patent	US	Staggered Charging of Slave devices such as in an Electronic Blasting System	10/620,190	7,086,334	Wells Fargo Foothill, Inc.
Patent	US	Firing-Readiness Diagnostics of a pyrotechnic Device such as an Electronic Detonator	10/619,890	7,107,908	Wells Fargo Foothill, Inc.
Patent	US	Pyrotechnic Circuit Breaker	10/688,020	7,123,124	Wells Fargo Foothill, Inc.
Patent	US	Overmolded body for Pyrotechnic Initiator and Method of Molding Same	09/733,813	7,124,688	Wells Fargo Foothill, Inc.
Patent	US	Pyrotechnic Circuit Breaker	10/964,804	7,239,225	Wells Fargo Foothill, Inc.
Patent	US	Device and System for Identifying an Unknown or Unmarked Slave Device Such as in an Electronic Blasting...	11/341,328	7,322,293	Wells Fargo Foothill, Inc.
Patent	US	Dynamically and Continuously Variable Rate, Asynchronous data transfer	10/620,113	7,577,756	Wells Fargo Foothill, Inc.
Patent	US	Current Modulation-Based communication from Slave Device	10/619,687	6,966,262	Wells Fargo Foothill, Inc.
Patent	US	Quick-Loosening Mechanical Linking Device	11/254,186	7,114,427	Wells Fargo Foothill, Inc.
Patent	US	Dynamic Baseline in Current Modulation-Based Communication	11/255,451	7,347,145	Wells Fargo Foothill, Inc.
Patent	US	Dynamic Baseline in Current Modulation-Based Communication	11/339,162	7,464,647	Wells Fargo Foothill, Inc.
Patent	US	Hybrid Electronic and Electromechanical Arm-Fire Device	11/368,002	7,464,648	Wells Fargo Foothill, Inc.

Patent	US	Slave Device, Such as in an Electronic Blasting System, Capable of being Identified if Unknown or Unmarked	11/999,441	7,533,613	Wells Fargo Foothill, Inc.
Patent Application	US	Multiple Slave logging Device	11/339,159	US2006-0130693	Wells Fargo Foothill, Inc.
Patent Application	US	Ultralogger	12/009,568	US2008-0236432	Wells Fargo Foothill, Inc.
Patent Application	US	Efficient Piezoelectric-Triggered Time Delay Module	11/414,247		Wells Fargo Foothill, Inc.
Patent	US	Powdered Metal Pyrotechnic Fuel	09/392,968	6,126,764	Foothill Capital Corp.
Patent	US	Electrostatic Discharge Immune Electric Initiator		5,099,762	Foothill Capital Corp.
Patent	US	Method of Drying Pyrotechnic compositions		5,993,578	Foothill Capital Corp.
Patent	US	Powdered Metal Pyrotechnic Fuel		6,126,764	Foothill Capital Corp.
Patent	US	Safe-arm Initiator		5,279,226	Foothill Capital Corp.
Patent Application	US	Improved Gas-Getting Material for use in Hermetically Sealed Devices	09/392,967		Foothill Capital Corp.
Patent Application	US	Multi-Unit Pyrotechnic Initiation System	09/702,620		Foothill Capital Corp.
Patent Application	US	Recessed Glass Initiator	09/733,548		Foothill Capital Corp.
Patent Application	US	Network Electronic Ordnance System	09/656,325		Foothill Capital Corp.
Patent Application	US	Detonator with onboard electronics mechanically connected to ignition element	10/158,677		Wells Fargo Foothill, Inc.
Patent Application	US	Initiator with a bridgewire in contact with slurry-loaded pyrotechnic charge at a position of relatively low void formation	10/188,004		Wells Fargo Foothill, Inc.
Patent Application	US	Water-Augmented, Water-Quenched Gas Generator	11/057,271		Wells Fargo Foothill, Inc.
Patent Application	US	Constant-current, rail-voltage regulated charging electronic detonator	11/100,808		Wells Fargo Foothill, Inc.
Patent Application	US	Low-voltage-insensitive electro-pyrotechnic device	11/811,568		Wells Fargo Foothill, LLC.
Patent Application	US	Electronic Safe, Arm, and Fire Device Configured to Reject Signals Below a Predetermined 'All-Fire' Voltage	11/715,106		Wells Fargo Foothill, LLC.



Patent Application	US	Firing-readiness capacitance check of a pyrotechnic device such as an electronic detonator	11/103,909		Wells Fargo Foothill, Inc.
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# **TRADEMARKS**

Trademark	Serial No.
Global Standard Initiator	78/047,120
GSI	78/047,118
SEA	76/087,674