

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Dirk Hummel</td><td>11/29/2006</td></tr><tr><td>Thomas Boos</td><td>11/29/2006</td></tr></tbody></table>	Name	Execution Date	Dirk Hummel	11/29/2006	Thomas Boos	11/29/2006	
Name	Execution Date						
Dirk Hummel	11/29/2006						
Thomas Boos	11/29/2006						
RECEIVING PARTY DATA							
Name:	Orica Explosives Technology Pty Ltd						
Street Address:	1 Nicholson Street						
City:	Melbourne, Victoria						
State/Country:	AUSTRALIA						
Postal Code:	300						
PROPERTY NUMBERS Total: 1							
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>10598906</td></tr></tbody></table>	Property Type	Number	Application Number:	10598906			
Property Type	Number						
Application Number:	10598906						
CORRESPONDENCE DATA							
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<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
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NAME OF SUBMITTER:	Matthew G. Doherty						
Total Attachments: 1 source=assignment003US1#page1.tif							

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PATENT
REEL: 018636 FRAME: 0144

ASSIGNMENT

WHEREAS, I/WE

Dirk HUMMEL, a German citizen of Broelstrasse 26, 53773 Hennef, Germany;
Thomas BOOS, a German citizen of Meisenstrasse 5a, 53859, Niederkassel, Germany

hereinafter referred to as Assignor (collectively if more than one inventor is listed above), have invented certain new and useful improvements in
Connector for electronic detonators

the specification of which:

- (a) ☐ was executed on even date herewith;
(b) ☒ was filed on 09/14/06 as ☐ Application No. 10/598,906 or
☐ Express Mail No. as Application No. not yet known _____ and was amended on _____ (if applicable); or
(c) ☒ was described and claimed in PCT International Application PCT/AU2005/000373
filed on 16 March 2005 and as amended under PCT Article 19 on _____ (if any) and/or
under PCT Article 34 on 18 January 2006 (if any).

AND WHEREAS,

ORICA EXPLOSIVES TECHNOLOGY PTY LTD, of 1 Nicholson Street, Melbourne, Victoria 3000, Australia

(hereinafter referred to as Assignee) desires to acquire the entire rights, title, and interest in and to the said improvements with respect to the United States of America, its territories and possessions.

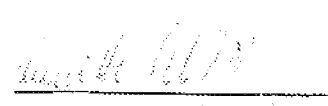
NOW, THEREFOR, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor hereby acknowledges that it has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title, and interest in the United States of America, and its territories and possessions in, to and under said improvements, and any Patent Applications in the United States of America and all divisions, renewals and continuations thereof, and all Patents of the United States of America which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions; and Assignor hereby authorizes and requests the Commissioner of Patents of the United States of America to issue all Patents for said improvements to Assignee, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR HEREBY covenants and agrees that it will communicate to Assignee, its successors, legal representatives and assigns, any facts known to it respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in the United States of America.


IN TESTIMONY WHEREOF, Assignor intending to be legally bound has hereunto affixed its signature.

This 29 day of Dec, 20 06


Signature of **Dirk HUMMEL**


Witness Anne He Schmidt

This 29 day of Nov, 20 06


Signature of **Thomas BOOS**


Witness Anne He Schmidt

PATENT