ORM PTO-1595 (1) KIK REC 08-31	-2001 HEET U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office
MB No. 0651-0011 (exp. 4/94)	
Tab settings S → To the Honorable Commissioner of Patients are 10183	
To the Honorable Commissioner of Patients and This 100	
Name of conveying party(ies):	2. Name and address of receiving party(ies)
Sek K. Chan Raymond Carriere	Name: ORICA EXPLOSIVES TECHNOLOGY PTY LTD
John T. Reid	Internal Address:
Additional name(s) of conveying party(ies) attached?   U Yes  U No	
3. Nature of conveyance:	
Assignment   Merger	Street Address: 1 NICHOLSON STREET
☐ Security Agreement ☐ Change of Name	MELBOURNE, VICTORIE 3000 AUSTRALIA
□ Other	City:State:ZIP:
Execution Date: April 4, 9, & 20/2001	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	on, the execution date of the application is:
A. Patent Application No.(s)	B. Patent No.(s)
09/559,662	
Additional numbers a	attached? □ Yes X No
<ol> <li>Name and address of party to whom correspondence concerning document should be mailed:</li> </ol>	6. Total number of applications and patents involved:
Name: Edwin J. Gale	7. Total fee (37 CFR 3.41)\$ 40.00
Internal Address:	* Enclosed
	☐ Authorized to be charged to deposit account
KIRBY EADES GALE BAKER	
Street Address: BOX 3432 STATION D	8. Deposit account number:
OTTAWA ONTARIO CANADA K1P 6N9	
City: State:ZIP:	(Attach duplicate copy of this page if paying by deposit account)
ON /21 /2001 DRYPHE 00000143 09559662 \	
01 FC:581 40.00 OP DO NOT U	JSE THIS SPACE
the original document.  Susan J. Damron	mation is true and correct and any attached copy is a true copy of  August 31, 2001  Signature  Date
	ing cover sheet, attachments, and document:
	th required cover sheet information to:

Mail documents to be recorded with required cover sheet information to

REEL: 012112 FRAME: 0630

FORM PTO 1-31-92	-159	5
5-10	0	/

ი5-16-2001 101719038

RI

J.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof. Name and address of receiving party(ies): Name of conveying party(ies): 5-100 Sek K. Chan: Name: ORICA EXPLOSIVES TECHNOLOGY PTY LTD. Raymond Carrier; John T. Reid Additional name(s) of conveying party(ies) attached? • Yes MiNo Address: 1 Nicholson Street Melbourne, Victoria 3000 AUSTRALIA 3. Nature of Conveyance: Assignment Merger a Change of Name a Security Agreement a Other Execution Date: April 4, Additional name(s) & address(es) attached? 5 Xes 1 No Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: CB. Patent No.(s) A. Patent Application No.(s) 09 / 559,662 Additional numbers attached? @ Yes 👛 No 6. Total number of applications and patents involved: 5. Name and address of party to whom correspondence 1 concerning document should be mailed: KIRBY, EADES, GALE, BAKER, \$40.00 7. Total (see (37 CFR 3.41):... Box 3432, Stn. D, Ottawa, Ontario, Authorized to be charged to deposit account Canada K1P 6N9. Credit Card Authorization - American Expres Deposit account number: (Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. EDWIN J. GALE Total number of pages including cover sheet, attachments and document: 4 Signature Name of Person Signing REG. NO. 28,584 Do not detach this portion Mail documents to be recorded with required cover sheer information to:

Commissioner of Patents and Trademarks Box Assignments Washington, D.C. 20231

Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, PK2-1000C, Washington, D.C. 20231, and to the Office of Management and Budget, Paperwork Reduction Project, (0651-0011), Washington, D.C. 20503

44328 U.S. ASSIGNMENT PENDING DES/PAT APPLICATION INDIVIDUAL(S) TO CO/IND

I/WE, Sek K. CHAN, Raymond CARRIERE, John T. REID of 4076 Kurchiran Street, Pierrefonds, Quebec, Canada H9H 4A9; 276 Woodbine Steet, Brownsburg, Quebec, Canada J0V 1A0; 24 Bunting Lane, Kanata, Ontario, Canada K2M 2P7	
(name and address of a	assignor(s))
in consideration of One Dollar (\$1.00) and other good which is hereby acknowledged, do hereby sell and ORICA EXPLOSIVES TECHNOLOGY PTY LT	od and valuable consideration, the receipt lassign to
(name and address of	fassignee)
hereinafter called the assignee, the entire right, entitled	
BLAST INITIATION	DEVICE
and in and to said United States patent application, a continuation-in-part of said application, and in and and extensions thereof, in and for the United States, to be held and enjoyed by the said assignee, its succeptive full ends of the terms for which all Letters Pate entirely as the same would have been held and enjoyed had not been made.	Canada, and all other countries, the same essors, assigns, or legal representatives to ent therefor may be granted, as fully and eyed by me/us if this assignment and sale
SIGNED at	
Date : Apr. 4, 200/ Witness: Camille Lalonde Address: 26 HAMELIN St.	(signature of assignor) Sek K. Chan
Date: Apr. 9, 2001 Witness: Camille Lakoncle Address: 76, 4 Amelia  Lachute, Quelic  JSH 2X6	(signature of assignor) Raymond Carriere

PATENT REEL: 012112 FRAME: 0632

Date :	20 APR 21	- STETOWN
Witness:	Lecision	(signature of assignor) John T. Reid
Address:	KANATA, DATE	John T. Reid
-	k2m 2P7	
-		
Date :		(signature of assignor)
Witness: Address:		(signature or assignor)
_		
_		
Data		
Date : Witness :		(signature of assignor)
Address :		
-		
-		
Date :	<u></u>	
Witness		(signature of assignor)
Address		
- -		
Date	:	(signature of assignor)
		(Signature of abbasis)
Address	:	
Date		(signature of assignor)
		(5-8
Address	:	

PATENT REEL: 012112 FRAME: 0633

FORM	PTO-1595	
1-31-92	o /	

RJ

## 05-16-2001

101719038

J.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

the Honorable Commissioner of Patents and Trademarks. Please reco	rd the attached original documents or copy thereof.
I. Name of conveying party(les):	2. Name and address of receiving party(ies):
Sek K. Chan; Raymond Carriers;	Name: ORICA EXPLOSIVES TECHNOLOGY PTY LTD.
John T. Reid  Additional name(s) of conveying party(ies) attached? © Yes Reno	Addres: 1 Nicholson Street Melbourne, Victoria 3000
3. Nature of Conveyance:	AUSTRALIA
Assignment	Additional name(s) & address(es) attached? 9 Xes No
Execution Date: April 4, 9 & 20/2001	Additional name(s) & address(es) attached? 5 Yes No
4. Application number(s) or patent number(s):	
If this document is being filed together with a new application, the exec	cution date of the application is:
A. Patent Application No.(s)	B. Patent No.(s)
09 / 559,662	
. Additional number	rs attached? © Yes 🞒 No
<ol> <li>Name and address of party to whom correspondence concerning document should be mailed:</li> </ol>	6. Total number of applications and patents involved:
KIRBY, EADES, GALE, BAKER, Box 3432, Stn. D,	7. Total fee (37 CFR 3.41) 5 \$40.00
Ottawa, Ontario, Canada K1P 6N9.	<ul> <li>Enclosed</li> <li>Authorized to be charged to deposit account</li> <li>Credit Card Authorization - American Exp</li> </ul>
	8. Deposit account number:
DO NOT U	(Artach duplicate copy of this page if paying by deposit account)
9. Statement and signature.	any attached copy is a true copy
<ol> <li>Statement and signature.</li> <li>To the best of my knowledge and belief, the foregoing information of the original document.</li> </ol>	MAY 8 61
	Date  Date  Date  Date  Date  Date
Name of Person Signing Signature REG. NO. 28,584 Total	al number of pages including cover sheet, attachments and document: 4
	etach this portion
Mail documents to be recorded with required cover sheet information 5/15/2001 LMUELLER 00000242 09559662 Commissioner of	Patrita and Tracement
to an on Box	Assignments grou, D.C. 20231  And the property of the property

Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, sheet. Send comments regarding this burden estimate to the U.S. Patent and Budget, Paperwork Reduction Project, (0651-PKZ-1000C, Washington, D.C. 20231, and to the Office of Management and Budget, Paperwork Reduction Project, (0651-0011), Washington, D.C. 20503

U.S. ASSIGNMENT PENDING DES/PAT APPLICATION INDIVIDUAL(S) TO CO/IND

I/WE, Sek K. CHAN, Raymond CARRIERE, John T. REID of 4076 Kurchiran Street, Pierrefonds, Quebec, Canada H9H 4A9; 276 Woodbine Steet, Brownsburg, Quebec, Canada	
JOV 1A0; 24 Bunting Lane, Kanata, Ontario, Canada K2M	[ 2P7
(name and address of assignor	r(s))
in consideration of One Dollar (\$1.00) and other good and of which is hereby acknowledged, do hereby sell and assign ORICA EXPLOSIVES TECHNOLOGY PTY LTD. of Victoria 3000, Australia	to 1 Nicholson Street, Melbourne,
(name and address of assigned	ee)
hereinafter called the assignee, the entire right, title as	
BLAST INITIATION DEVIC	CE
and in and to said United States patent application, and in an continuation-in-part of said application, and in and to any a and extensions thereof, in and for the United States, Canada to be held and enjoyed by the said assignee, its successors, the full ends of the terms for which all Letters Patent ther entirely as the same would have been held and enjoyed by had not been made.	and all cetters rate and resisted a, and all other countries, the same assigns, or legal representatives to refor may be granted, as fully and me/us if this assignment and sale
SIGNED at	
Date: Apr. & 200/ Witness: Camille Lalonde	(signature of assignor) Sek K. Chan
Address: 26 HAMELIAI ST.  Inchufe QUE.  18H 2X6	JOHN. Chan
Date : Gpr. 9, 2001 Witness: Camille Lakoncle Address: 76, 4 Amplie Lachute, Quielic	(signature of assignor) Raymond Carriere

PATENT REEL: 012112 FRAME: 0635

Date	: 20 APR 01	_ Not Tain
Witness Address	ERWEING LANG  KANATA. ONT.  KOM 277	(signature of assignor) John T. Reid
Date Witness Address		(signature of assignor)
		(signature of assignor)

PATENT
RECORDED: 08/31/2001 REEL: 012112 FRAME: 0636