

01-05-2000

BOX ASSIGNMENTS



DO NOT USE FOR TRADEMARKS

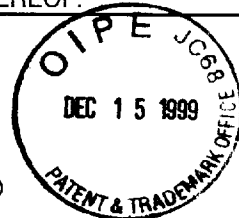
MUR 12/15/99 P.

101238171

TO THE ASSISTANT COMMISSIONER OF PATENTS AND TRADEMARKS: SIR: PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

- 1. Orica Australia Pty Ltd
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.



ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? YES NO

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: Orica Explosives Technology Pty Ltd

ADDRESS: 1 Nicholson Street, Melbourne 3000, Victoria, Australia

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? YES NO

3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)

- ASSIGNMENT OF WHOLE PART INTEREST
- ORIGINAL FACSIMILE/PHOTOCOPY
- CHANGE OF NAME ACCURATE TRANSLATION
- SECURITY MERGER OTHER:

EXEC. DATE: October 1, 1999

EXECUTION DATE(S) ON THE DECLARATION IF FILED HERewith: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!)

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? YES NO

A. PAT. APP. NO.(S) series code/serial no	M#	1 st INVENTOR if not in item 1	B. PATENT NO(S)	M#	1 st INVENTOR if not in item 1
08/809,473	243392	MURRAY	4,764,230	64761	BATES
08/817,734	260188	PALMER	4,936,933	70107	YABSLEY
			4,999,062	71745	SNARE

5. Name & Address of Party to Whom Correspondence Concerning Document Should be Mailed:

Pillsbury Madison & Sutro LLP
Intellectual Property Group
1100 NEW YORK AVENUE, N.W.
NINTH FLOOR, EAST TOWER
WASHINGTON, D.C. 20005-3918

6. NUMBER INVOLVED:
APPLNS 2 + PATS 10 = TOTAL 12

7. AMOUNT OF FEE ENCLOSED: (Code 581)
ABOVE TOTAL x \$40 = \$480

5.5 ATTY DKT:

PMS 243400	2169688/PHH/AJB
MATTER NO.	CLIENT REF.

8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975		
UNDER ORDER NO	21058	243400
dup. sheet not required	CLIENT NO.	MATTER NO.

9. 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.

12/29/1999 DMGLIYEN 00000331 08809473

01 FC:581

Paul N. Kokulis
Signature

10. Total number of pages including this cover sheet, attachments and document (do not file dup. Cover sheet)	6
---	---

Attorney: Paul N. Kokulis

Reg. No. 16773

Atty/Sec: PNK/mah

TEL: (202) 861-3503

Date: December 15, 1999

FAX: (202) 822-0944

FILE WITH PTO RETURN RECEIPT (PAT-103A)

PATENT REEL: 010461 FRAME: 0191

PAT-114X 11/99

ATTACHMENT TO ASSIGNMENT TRANSMITTAL

<u>Patent No.</u>	<u>Inventor</u>
5,069,131	KENNEDY
5,026,442	YABSLEY
5,074,939	SANDERS
5,160,387	SUJANSKY
5,148,176	BEATTIE
5,712,440	
5,610,358	

PATENT ASSIGNMENT

This Patent Assignment is dated the 1st day of October 1999

By and between

Orica Australia Pty Ltd (ACN 004 117 828), of 1 Nicholson Street, Melbourne 3000, Victoria Australia (the "Assignor")

and

Orica Explosives Technology Pty Ltd (ACN 075 659 353), of 1 Nicholson Street, Melbourne 3000, Victoria Australia (the "Assignee").

WHEREAS Assignor is an owner of those patents and patent applications listed on the attached schedule 1 ("the Patents"); and

WHEREAS Assignee wishes to acquire Assignor's entire right, title and interest in United States in and to the Patents and the inventions therein;

NOW THEREFORE, for the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor confirms that it has sold, assigned and transferred and by these present does hereby sell, assign and transfer to Assignee, its successors, assigns and legal representatives, Assignor's entire right, title and interest in United States in and to the inventions described in the Patents, the Patents, and any and all divisions, reissues, substitutions, continuations and extensions thereof and any and all applications for the inventions in United States and any and all Letters Patents which may issue or be issued for the inventions in United States to the full end of the term for which each said Letters Patent may be granted.

Assignor confirms that the entire right, title and interest assigned and transferred to Assignee by these presents includes all the rights, powers, liberties and immunities conferred on the owner

No. 45

by the grant of said Letters Patent free from all encumbrances and including the right to sue for damages and other remedies in respect of any infringement of the Letters Patent which may have accrued up to the date hereof.

Assignor authorizes and requests the Commissioner of Patents to issue the Patents, and all patents resulting from any applications for the inventions in United States, to Assignee, its successors, assigns and legal representatives.

Assignor further agrees to do all such lawful acts and things and to execute without further consideration such further lawful assignments, powers of attorney, applications, declarations, affidavits, and other instruments as may reasonably be required by Assignee to effect said sale, transfer and assignment and to vest or perfect such rights, title and interest to Assignee, its successors, assigns and legal representatives.

Assignee hereby accepts the foregoing assignment made by Assignor.

No. 45

PATENT
REEL: 010461 FRAME: 0194

SCHEDULE 1
(United States)

Application No.	Patent No.	Ref No.
07/089394	4,764,230	AUS 1328
07/278779	4,936,933	AUS 1388
313846	4,999,062	AUS 1393
07/412202	5,069,131	AUS 1410
07/507217	5,026,442	AUS 1424
577661	5,074,939	AUS 1448
07/614456	5,160,387	AUS 1451
728872	5,148,176	AUS 1481
08/809473		AUS 1560
08/558242	5,712,440	AUS 1566
08/566861	5,610,358	AUS 1567
08/817734		AUS 1569

IN WITNESS WHEREOF, the parties have caused this Patent Assignment to be executed by their duly authorized officers as of the date stated above.

ASSIGNOR

ASSIGNEE

By *Rachel Watson*

Rachel Watson

Name Rachel Watson
Authorised Officer

Rachel Watson
Authorised Officer

Title

No. 45