Form PTO-1594 R' (Rev. 03/01)	08-08-2001	U.S. DEPARTMENT OF COMMERCE
OMB No. 0651-0027 (exp. 5/31/2002)		U.S. Patent and Trademark Office
Tab settings ⇔⇔ ♥		▼ ▼ ▼
To the Honorable Commissioner of Pate	101803621	original documents or copy thereof.
Name of conveying party(ies):	2. Name and add	ress of receiving party(ies)
Austin Powder Company 8-2	つ) Name: KeyB	ank National Association,
Company	Internal	as agent
☐ Individual(s) ☐ Associ		
		127 Public Square
Corporation-State		nd State: OH Zip: 44114
Other	Y .	1
	Association_	
Additional name(s) of conveying party(ies) attached	? Yes No General Part	
3. Nature of conveyance:		Aug
Assignment	caer Limited Party	4.
	Corporation-	State
, , , , , , , , , , , , , , , , , , ,	(101	miciled in the United States, a domestic
Other	representative design	nation is attached: Yes No be a separate document fr <u>om</u> assignment)
Execution Date	Additional name(s) &	address(es) attached? 🕌 Yes 📮 No
4. Application number(s) or registration number	' '	91965 2032655 2270242 44644 2207019 2258691
A. Trademark Application No.(s)	B. Trademark R	legistration No.(s)
75/841324 76/101465	l l	97636 1497634 2320813 35199 1497630
76/005823	1497633 149	97631 1497635 ¹⁵⁵⁵⁶⁹⁷
5. Name and address of party to whom correspo	nal number(s) attached La Yes Ly ondence 6. Total number of	
concerning document should be mailed:		olved:
Name: John E. Mazey		
Internal Address Ionaca Day Bossei S	7. Total fee (37 CF	R 3.41)\$ 615.00
Internal Address: Jones, Day, Reavis &	10640	,
North Point	Enclosed	
	☐ Authorized	I to be charged to deposit account
Street Address: 901 Lakeside Avenue	8. Deposit account	number:
001 TBIAZ1 00000162 75841324 40.00 GP		
W4	p: 44114 (Attach duplicate co	py of this page if paying by deposit account)
	DO NOT USE THIS SPACE	, , , , , , , , , , , , , , , , , , , ,
9. Statement and signature.		
To the best of my knowledge and belief, the fo copy of the original document.	regoing information is true and corr	rect and any attached copy is a true
Kathie J. Kopczyk	Kothies. Koocsule	July 31, 2001
Name of Person Signing	Signature 00	Date Date
Total number of	pages including cover sheet, attachments, and docu	ument: 被照明度等等

Mail documents to be recorded with required cover sheet information to: Commissioner of Patent & Trademarks, Box Assignments Washington, D.C. 20231

INTELLECTUAL PROPERTY SECURITY AGREEMENT

1. Recitals.

AUSTIN POWDER COMPANY, an Ohio corporation (together with its successors and assigns, "Pledgor"), the financial institutions listed on <u>Schedule 1</u> to the Credit Agreement, as hereinafter defined, (collectively, "Banks" and, individually, "Bank") and KEYBANK NATIONAL ASSOCIATION, as agent for the Banks ("Agent"), are entering into the Credit Agreement.

Pledgor understands that the Banks are willing to grant such financial accommodations to Pledgor only upon certain terms and conditions, one of which is that Pledgor grant to Agent, for the benefit of the Banks, a security interest in and collateral assignment of the Collateral, as hereinafter defined, and this Intellectual Property Security Agreement (as the same may from time to time be amended, restated or otherwise modified, this "Agreement") is being executed and delivered in consideration of each financial accommodation granted to Pledgor by the Banks and for other valuable considerations.

- 2. <u>Definitions</u>. As used in this Agreement, the following terms shall have the following meanings:
 - 2.1. "Assignment" shall mean an Assignment in the form of Exhibit A attached hereto.
- 2.2. "Collateral" shall mean, collectively, all of Pledgor's existing and future (a) patents, patent registrations, patent applications, trademarks, trademark registrations, trademark applications and copyright registrations, whether federal or state, including, but not limited to, those listed on Schedule 1 hereto (as such Schedule 1 may from time to time be amended, supplemented or otherwise modified); (b) common law trademark rights, copyrights, improvements and inventions; (c) renewals, proceeds on infringement suits, and rights to sue for past, present and future infringements relating to any of the foregoing; (d) goodwill associated with any of the foregoing; and (e) proceeds of any of the foregoing.
- 2.3. "Credit Agreement" shall mean the Third Amended and Restated Credit and Security Agreement executed by and among Pledgor, the Banks and Agent and dated as of the 29th day of June, 2001, as the same may from time to time be amended, restated or otherwise modified.
- 2.4. "Debt" shall mean, collectively, (a) all Loans and Letters of Credit; (b) all other indebtedness now owing or hereafter incurred by Pledgor to Agent or any Bank pursuant to the Credit Agreement and any Note executed in connection therewith; (c) each renewal, extension, consolidation or refinancing of any of the foregoing, in whole or in part; (d) all interest from time to time accruing on any of the foregoing, and all fees or other amounts payable by Pledgor pursuant to the Credit Agreement; (e) all obligations and liabilities of Pledgor now existing or hereafter incurred to Agent or any Bank (or any affiliate of such Bank) under, arising out of, or in connection with any Hedge Agreement; (f) every other liability, now or hereafter owing to

Agent or any Bank or Pledgor pursuant to the Credit Agreement or any other Loan Document; and (g) all Related Expenses.

- 2.5. "Event of Default" shall mean an event or condition that constitutes an event of default pursuant to Section 8 hereof.
- 2.6. "Hedge Agreement" shall mean any currency swap or hedge agreement, interest rate swap, cap, collar or floor agreement, or other interest rate management device entered into by Pledgor with Agent or any of the Banks, or any of their respective affiliates, in connection with the Debt.
- 2.7. "Letter of Credit" shall mean any Letter of Credit, as defined in the Credit Agreement, issued pursuant to the Credit Agreement.
- 2.8. "Loan" shall mean any Loan, as defined in the Credit Agreement, granted pursuant to the Credit Agreement.
- 2.9. "Person" shall mean any individual, sole proprietorship, partnership, joint venture, unincorporated organization, corporation, limited liability company, institution, trust, estate, government or other agency or political subdivision thereof or any other entity.
- 2.10. "Related Expenses" shall mean any and all reasonable costs, liabilities and expenses (including, without limitation, losses, damages, penalties, claims, actions, reasonable attorneys' fees, legal expenses, judgments, suits, and disbursements) (a) incurred by Agent or imposed upon or asserted against Agent or any Bank, in any attempt by Agent and the Banks to (i) obtain, preserve, perfect or enforce any security interest evidenced by this Agreement, the Credit Agreement or any Related Writing, as defined in the Credit Agreement; (ii) obtain payment, performance or observance of any and all of the Debt; or (iii) maintain, insure, audit, collect, preserve, repossess or dispose of any of the Collateral or any other collateral securing the Debt, including, without limitation, costs and expenses for appraisals, assessments and audits of Pledgor or any such collateral; or (b) incidental or related to (a) above, including, without limitation, interest thereupon from the date incurred, imposed or asserted until paid at the Default Rate, as defined in the Credit Agreement.
- 2.11. "USPTO" shall mean the United States Patent and Trademark Office in Washington D.C.

Except as specifically defined herein, capitalized terms used herein that are defined in the Credit Agreement shall have their respective meanings ascribed to them in the Credit Agreement.

3. Grant of Assignment and Security Interest. In consideration of and as security for the full and complete payment of all of the Debt, Pledgor hereby agrees that the Banks shall at all times have, and hereby grants to Agent, for the benefit of the Banks, a security interest in and collateral assignment of all of the Collateral, including (without limitation) all of Pledgor's future Collateral, irrespective of any lack of knowledge by Agent or any Bank of the creation or acquisition thereof.

- 4. <u>Representations and Warranties</u>. Pledgor represents and warrants to Agent and each Bank that:
- (a) Pledgor owns all of the Collateral and, whether the same are registered or unregistered, no such Collateral has been adjudged invalid or unenforceable;
 - (b) The Collateral is valid and enforceable;
- (c) Pledgor has no knowledge of any claim that the use of any of the Collateral does or may violate the rights of any Person;
- (d) Except for liens expressly permitted pursuant to Section 5.9 of the Credit Agreement, Pledgor is the sole and exclusive owner of the entire and unencumbered right, title and interest in and to the Collateral, free and clear of any liens, charges and encumbrances, including, without limitation, pledges, assignments, licenses, registered user agreements and covenants by Pledgor not to sue third Persons;
- (e) Pledgor has full power, authority and legal right to pledge the Collateral and enter into this Agreement and perform its terms; and
- (f) Pledgor has used, and shall continue to use, for the duration of this Agreement, proper statutory notice in connection with its use of the Collateral, except where the failure to do so will not have a material adverse effect on Pledgor.
- 5. <u>Further Assignment Prohibited</u>. Pledgor shall not enter into any agreement that is inconsistent with Pledgor's obligations under this Agreement and shall not otherwise sell or assign its interest in, or grant any license or sublicense with respect to, any of the Collateral, without Agent's prior written consent. Absent such prior written consent, any attempted sale or license is null and void.
- 6. Right to Inspect. Pledgor hereby grants to Agent, for the benefit of the Banks, and its employees and agents the right, during regular business hours, to visit any location of Pledgor or, if applicable, any other location, and to inspect the products and quality control records relating thereto at Pledgor's expense.
- 1. <u>Standard Patent and Trademark Use</u>. Pledgor shall not use the Collateral in any manner that would jeopardize the validity or legal status thereof. Pledgor shall comply with all patent marking requirements as specified in 35 U.S.C. §287. Pledgor shall further conform its usage of any trademarks to standard trademark usage, including, but not limited to, using the trademark symbols ®, TM, and SM where appropriate.

8. Event of Default.

(a) Any of the following shall constitute an Event of Default under this Agreement: (i) an Event of Default, as defined in the Credit Agreement, shall occur under the Credit Agreement; (ii) any representation, warranty or statement made by Pledgor in or pursuant to this Agreement or in any other writing received by Agent or the Banks in connection with the Debt shall be false or erroneous in any material respect; or (iii) Pledgor shall fail or omit to perform or

observe any agreement made by Pledgor in or pursuant to this Agreement or in any other writing received by Agent or the Banks pursuant hereto.

- (b) Pledgor expressly acknowledges that Agent, on behalf of the Banks, shall record this Agreement with the USPTO. Contemporaneously herewith, Pledgor shall execute and deliver to Agent the Assignment, which Assignment shall have no force and effect and shall be held by Agent in escrow until the occurrence of an Event of Default; provided, that, anything herein to the contrary notwithstanding, the security interest and collateral assignment granted herein shall be effective as of the date of this Agreement. After the occurrence of an Event of Default, the Assignment shall immediately take effect upon certification of such fact by an authorized officer of Agent in the form reflected on the face of the Assignment and Agent may, in its sole discretion, record the Assignment with USPTO.
- If an Event of Default shall occur, Pledgor irrevocably authorizes and empowers (c) Agent, on behalf of the Banks, to terminate Pledgor's use of the Collateral and to exercise such rights and remedies as allowed by law. Without limiting the generality of the foregoing, after any delivery or taking of possession of the Collateral, or any thereof, pursuant to this Agreement, then, with or without resort to Pledgor or any other Person or property, all of which Pledgor hereby waives, and upon such terms and in such manner as Agent may deem advisable, Agent, on behalf of the Banks, may in its discretion, sell, assign, transfer and deliver any of the Collateral, together with the associated goodwill, or any interest that Pledgor may have therein, at any time, or from time to time. No prior notice need be given to Pledgor or to any other Person in the case of any sale of Collateral that Agent determines to be declining speedily in value or that is customarily sold in any recognized market, but in any other case Agent shall give Pledgor no fewer than ten (10) days prior notice of either the time and place of any public sale of the Collateral or of the time after which any private sale or other intended disposition thereof is to be made. Pledgor waives advertisement of any such sale and (except to the extent specifically required by the preceding sentence) waives notice of any kind in respect of any such sale. At any such public sale, Agent or any Bank may purchase the Collateral, or any part thereof, free from any right of redemption, all of which rights Pledgor hereby waives and releases. After deducting all Related Expenses, and after paying all claims, if any, secured by liens having precedence over this Agreement, Agent may apply the net proceeds of each such sale to or toward the payment of the Debt, whether or not then due, in such order and by such division as Agent in its sole discretion may deem advisable. Any excess, to the extent permitted by law, shall be paid to Pledgor, and the obligors on the Debt shall remain liable for any deficiency. In addition, Agent shall at all times have the right to obtain new appraisals of Pledgor or the Collateral, the cost of which shall be paid by Pledgor.
- 9. <u>Termination</u>. At such time as the Debt shall have been irrevocably paid in full, the Commitment, as defined in the Credit Agreement, terminated, and the Credit Agreement terminated and not replaced by any other credit facility with Agent and the Banks, Pledgor shall have the right to terminate this Agreement. Upon written request of Pledgor, Agent shall execute and deliver to Pledgor all deeds, assignments, and other instruments as may be necessary or proper to release Agent's security interest in and assignment of the Collateral and to re-vest in Pledgor full title to the Collateral, subject to any disposition thereof that may have been made by Agent, for the benefit of the Banks, pursuant hereto.

- 10. Maintaining Collateral; Attorneys' Fees, Costs and Expenses. Pledgor shall have the obligation and duty to perform all acts necessary to maintain or preserve the Collateral, provided that Pledgor shall not be obligated to maintain any Collateral in the event Pledgor determines, in the reasonable business judgment of Pledgor, that the maintenance of such Collateral is no longer necessary in Pledgor's business. Any and all reasonable fees, costs and expenses, of whatever kind or nature, including, without limitation, the attorneys' fees and legal expenses incurred by Agent and the Banks in connection with the amendment and enforcement of this Agreement, all renewals, required affidavits and all other documents relating hereto and the consummation of this transaction, the filing or recording of any documents (including all taxes in connection therewith) in public offices, the payment or discharge of any taxes, counsel fees, maintenance fees, encumbrances or otherwise protecting, maintaining or preserving the Collateral, or in defending or prosecuting any actions or proceedings arising out of or related to the Collateral, shall be borne and paid by Pledgor, upon demand by Agent and, until so paid, shall be added to the principal amount of the Debt.
- 11. Pledgor's Obligation to Prosecute. Except as otherwise agreed to by Agent in writing, Pledgor shall have the duty to prosecute diligently any patent application or trademark application pending as of the date of this Agreement or thereafter until the Debt shall have been paid in full, to file and prosecute opposition and cancellation proceedings and to do any and all acts that are necessary or desirable to preserve and maintain all rights in the Collateral, including, but not limited to, payment of any maintenance fees. Any expenses incurred in connection with the Collateral shall be borne by Pledgor. Pledgor shall not abandon any Collateral without the prior written consent of Agent, unless such abandonment will not have a material adverse effect on Pledgor or such abandonment is in connection with the abandonment of a product or product line.
- 12. Agent's Right to Enforce. Pledgor shall have the right to bring any opposition proceeding, cancellation proceeding or lawsuit in its own name to enforce or protect the Collateral. Agent, on behalf of the Banks, shall have the right, but shall have no obligation, to join in any such action. Pledgor shall promptly, upon demand, reimburse and indemnify Agent and the Banks for all damages, reasonable costs and expenses, including attorneys' fees, incurred by Agent and the Banks in connection with the provisions of this Section 12, in the event Agent, on behalf of the Banks, elects to join in any such action commenced by Pledgor.
- 13. Power of Attorney. Pledgor hereby authorizes and empowers Agent, on behalf of the Banks, to make, constitute and appoint any officer or agent of Agent as Agent may select, in its exclusive discretion, as Pledgor's true and lawful attorney-in-fact, with the power to endorse, after the occurrence of an Event of Default, Pledgor's name on all applications, documents, papers and instruments necessary for Agent, on behalf of the Banks, to use the Collateral, or to grant or issue any exclusive or nonexclusive license under the Collateral to any third party, or necessary for Agent, on behalf of the Banks, to assign, pledge, convey or otherwise transfer title in or dispose of the Collateral, together with associated goodwill to a third party or parties. Pledgor hereby ratifies all that such attorney shall lawfully do or cause to be done by virtue hereof. This power of attorney shall be irrevocable for the life of this Agreement.
- 14. Agent's Right to Perform Obligations. If Pledgor fails to comply with any of its obligations under this Agreement, Agent, on behalf of the Banks, may, but is not obligated to, do

so in Pledgor's name or in the name of Agent, on behalf of the Banks, but at Pledgor's expense, and Pledgor hereby agrees to reimburse Agent, upon request, in full for all expenses, including attorneys' fees, incurred by Agent and the Banks in protecting, defending and maintaining the Collateral.

- 15. Additional Documents. Pledgor shall, upon written request of Agent, enter into such additional documents or instruments as may be required by Agent in order to effectuate, evidence or perfect the interest of Agent and the Banks in the Collateral, as evidenced by this Agreement.
- 16. New Collateral. If, before the Debt shall have been satisfied in full and the terminated, Pledgor shall obtain rights to any new Collateral, the provisions of Section 1 hereby shall automatically apply thereto as if the same were identified on Schedule 1 as of the date hereof and Pledgor shall give Agent prompt written notice thereof.
- 17. <u>Modification for New Collateral</u>. Pledgor hereby authorizes Agent to modify this Agreement by amending <u>Schedule 1</u> to include any future Collateral as contemplated by Sections 1 and 16 hereof and, at Agent's request, Pledgor shall execute any documents or instruments required by Agent in order to modify this Agreement as provided in this Section 17, provided that any such modification to <u>Schedule 1</u> shall be effective without the signature of Pledgor.
- 18. No Waiver. No course of dealing between Pledgor and Agent or any Bank, nor any failure to exercise, nor any delay in exercising, on the part of Agent or any such Bank, any right, power or privilege hereunder or under any of the Loan Documents shall operate as a waiver thereof; nor shall any single or partial exercise of any right, power or privilege hereunder or thereunder preclude any other or further exercise thereof or the exercise of any other right, power or privilege.
- 19. Remedies Cumulative. All of the rights and remedies of Agent and the Banks with respect to the Collateral, whether established hereby or by the Documents, or by any other agreements or by law shall be cumulative and may be executed singularly or concurrently.
- 20. <u>Severability</u>. The provisions of this Agreement are severable, and, if any clause or provision shall be held invalid and unenforceable in whole or in part in any jurisdiction, then such invalidity or unenforceability shall affect only such clause or provision, or part thereof, in such jurisdiction, and shall not in any manner affect such clause or provision in any other jurisdiction, or any other clause or provision of this Agreement in any jurisdiction.
- 21. <u>Modifications</u>. This Agreement may be amended or modified only by a writing signed by Pledgor and Agent. In the event that any provision of this Agreement is deemed to be inconsistent with any provision of any other document, other than the Credit Agreement, the provisions of this Agreement shall control.
- 22. <u>Assignment and Successors</u>. This Agreement shall not be assigned by Pledgor without the prior written consent of Agent. This Agreement shall bind the successors and permitted assigns of Pledgor and shall benefit the respective successors and assigns of Agent and

the Banks. Any attempted assignment or transfer without the prior written consent of Agent shall be null and void.

- 23. Notice. All notices, requests, demands and other communications provided for hereunder shall be in writing and, if to Pledgor, mailed or delivered to it, addressed to it at the address of Pledgor specified on the signature page of this Agreement, and, if to Agent or any Bank, mailed or delivered to it, addressed to the address of Agent or such Bank specified on the signature pages of the Credit Agreement. All notices, statements, requests, demands and other communications provided for hereunder shall be deemed to be given or made when delivered or forty-eight (48) hours after being deposited in the mails with postage prepaid by registered or certified mail, addressed as aforesaid, or sent by facsimile with telephonic confirmation of receipt, except that notices from Pledgor to Agent or any Bank pursuant to any of the provisions hereof shall not be effective until received by Agent or such Bank.
- 24. Governing Law. This Agreement shall be construed and enforced in accordance with, and the rights of the parties shall be governed by, the laws of the State of Ohio, without regard to principles of conflicts of law. Pledgor hereby irrevocably submits to the non-exclusive jurisdiction of any Ohio state or federal court sitting in Cleveland, Ohio, over any action or proceeding arising out of or relating to this Agreement, any Loan Document or any Related Writing, and Pledgor hereby irrevocably agrees that all claims in respect of such action or proceeding may be heard and determined in such Ohio state or federal court. Pledgor hereby irrevocably waives, to the fullest extent permitted by law, any objection it may now or hereafter have to the laying of venue in any action or proceeding in any such court as well as any right it may now or hereafter have to remove such action or proceeding, once commenced, to another court on the grounds of FORUM NON CONVENIENS or otherwise. Pledgor agrees that a final, nonappealable judgment in any such action or proceeding shall be conclusive and may be enforced in other jurisdictions by suit on the judgment or in any other manner provided by law.

[Remainder of page intentionally left blank.]

25. JURY TRIAL WAIVER. PLEDGOR, AGENT AND THE BANKS, TO THE EXTENT PERMITTED BY LAW, EACH WAIVE ANY RIGHT TO HAVE A JURY PARTICIPATE IN RESOLVING ANY DISPUTE, WHETHER SOUNDING IN CONTRACT, TORT OR OTHERWISE, AMONG AGENT, THE BANKS, PLEDGOR AND PLEDGOR, OR ANY THEREOF, ARISING OUT OF, IN CONNECTION WITH, RELATED TO, OR INCIDENTAL TO THE RELATIONSHIP ESTABLISHED BETWEEN THEM IN CONNECTION WITH THIS AGREEMENT OR ANY NOTE OR OTHER INSTRUMENT, DOCUMENT OR AGREEMENT EXECUTED OR DELIVERED IN CONNECTION THEREWITH OR THE TRANSACTIONS RELATED THERETO. THIS WAIVER SHALL NOT IN ANY WAY AFFECT, WAIVE, LIMIT, AMEND OR MODIFY THE ABILITY OF AGENT OR ANY BANK TO PURSUE REMEDIES PURSUANT TO ANY CONFESSION OF JUDGMENT OR COGNOVIT PROVISION CONTAINED IN ANY NOTE, OR OTHER INSTRUMENT, DOCUMENT OR AGREEMENT AMONG PLEDGOR, AGENT AND THE BANKS. OR ANY THEREOF.

IN WITNESS WHEREOF, the undersigned has executed this Agreement as of the 29th day of June, 2001.

Address:

25800 Science Park Drive

Beachwood, Ohio 44122

Attn: Treasurer

AUSTIN POWDER COMPANY

By: ____ Name:

Name: Dish las E. Stelze
Title: Presum

This Agreement is hereby acknowledged and agreed to by:

KEYBANK NATIONAL ASSOCIATION, as

Agent

Karvn L. Wild, Vice President

ACKNOWLEDGMENTS

)

THE STATE OF OHIO

COUNTY OF CUYAHOGA) SS:)		
BEFORE ME, the understanding the such corporation for the purposes stated.	ne to be the per wledged to me o corporation, a	rson and officer wh that the same was and that she/he exe	the act of the said AUSTII cuted the same as the act of
GIVEN UNDER MY HA	ND AND SEAI	L OF OFFICE this	29+4 day of June, 2001.
		PLACE. NOTARY PUB	LIC JOHN E. MAZEY NOTARY PUBLIC
THE STATE OF OHIO)) SS:		State of Ohio My Commission Has No Expiration
COUNTY OF CUYAHOGA)		

BEFORE ME, the undersigned authority, on this day personally appeared Karyn L. Wild, known to me to be the person and officer whose name is subscribed to the foregoing instrument and acknowledged to me that the same was the act of the said KEYBANK NATIONAL ASSOCIATION, as Agent, and that she executed the same as the act of such national banking association for the purposes and consideration therein expressed, and in the capacity therein stated.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this 2914 day of June, 2001.

NOTARY PUBLIC

LAMAR T. COLE
NOTARY PUBLIC, STATE OF OHIO
Recorded in Cuyahoga County
My Comm. Expires Oct. 29, 2001

SCHEDULE 1

AUSTIN POWDER COMPANY TRADEMARK PORTFOLIO (7/16/01)

COMMENTS	§§ 8 & 15 rec'd 10/28/54; Renewal due 11/28/03		Opposition period expired		Reflewal due 4/21/09	Accepted for publication	Filing Instructions sent 8/21/00; Power of attorney sent 10/18/nn		Awaiting certificate:	Netrewal due 11/10/08	NS19Wai due 10/13/10		\$\$ 8 & 15 filed 3/30/94; Renewal due 7/26/08	§§ 8 & 15 filed 4/5/94; Renewal due 7/25/08
80009	Blasting powder, sellet powder, dynamile, permissible explosives, can explosives,												Explosives	Detonators for explosives
FOREIGN		Breuer	Rojas	Kador	Kvpris		Arenales	Rodrigo	Pereira	Barbai				
ISSUE	11/28/33			6/28/00					11/10/89	10/13/00		10000	98/97//	7/26/88
REG. NO. (Appln. No.)	308,311	(2.214.197)	(016170)	225161	(140515)	74.004.7V	(1/2011)	(103085)	(336602)	321,431		4 407 000	1,487,03Z	1,497,636
FILING	07/23/33	4/16/99	3/24/00	4/21/99	5/10/99	NVA	2	3/23/00	4/21/99	3/23/00		4960467	1212 1101	12/21/87
COUNTRY*	U.S.	Argentina	Bolivia	Czech Rep.	Greece	Gustomats		Peru	Portugal	Uruguay		811	; ;	U.S.
MARK	AUSTIN DIAMOND LOGO											COALMEX	Villiano	COAL STAR
F&S DOCKET NO.	ATN 5 0006	ATN 5 0006 AR	ATN 5 0006 BO	ATN 5 0006 CZ	ATN 5 0006 GR	ATN 5 0006 GT		ATN 5 0006 PE	ATN 5 0006 PT	ATN 5 0006 UY		ATN 5 0007		ATN 5 0008

* Country printed in boldface where mark is registered

COMMENTS	§§ 8 & 15 filed 10/27/94;	Neilewal due 4/18/09	parida pened parisodo	Fling instructions sent	sent 10/16/00	Renewal due 3/9/08	Renewal due 10/12/10	§§ 8 & 15 filed 3/30/94; Renewal due 7/26/08	Opposition period expired	Renewal due 7/28/14	Renewal due 11/26/08	Filing instructions sent 8/21/00; Power of attorney sent 10/16/00	Renewal due 3/9/08	Renewal due 10/12/10	Instructions to settle opposition sent 10/5/98	§§ 8 & 15 filed 3/20/94; Renewal due 7/26/08	Renewal due 7/28/14
GOODS	High explosives							Explosives								Non-nitroglycerin explosives	
FOREIGN		Brauer	Веттео	Arenales		Goodrich	Barbat		Breuer	Gowling	Веппео	Arenales	Goodrich	Barbat	Hoet		Gowling
ISSUE DATE	4/18/89		11/26/98			5/25/98	10/12/00	7/26/88		7/28/88	11/26/98		8/30/00	10/12/00		7/26/88	7/28/99
REG. NO. (Appln. No.)	1,535,199	(2.275.869)	1-6621-98	(12597)	577057	977354	321,435	1,497,634	(2.275.197)	TMA513,525	1-6622-98	(12598)	662503	321,434	(16952-97)	1,497,630	TMA513,528
FILING	12/21/87	3/23/00	8/22/97	ΨX	agrare	Deser	3/23/00	12/21/87	3/21/00	10/30/97	8/22/97	N/A	3/9/98	3/23/00	8/22/97	12/21/87	10/30/97
COUNTRY	u.s.	Argentina	Ecuador	Guatemala	Maxico	HEADO	Uruguay	U.S.	Argentina	Canada	Ecuador	Gualemala	Mexico	Uruguay	Venezuela	U.S.	Canada
MARK	EMULEX							HEET								негіх	
F&S DOCKET NO.	ATN 5 0009	ATN 5 0009 AR	ATN 5 0009 EC	ATN 5 0009 GT	ATN 5 0009 MX		AIN 5 0009 UY	ATN 5 0010	ATN 5 0010 AR	ATN 5 0010 CA	ATN 5 0010 EC	ATN 5 0010 GT	ATN 5 0010 MX	ATN 5 0010 UY	ATN 5 0010 VE	ATN 5 0011	ATN 5 0011 CA

* Country printed in boldface where mark is registered

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	COMMENTS	§§ 8 & 15 filed 3/30/94:	Renewal due 7/26/08	Opposition period expired	Renewal due 7/28/14	Renewal due 11 maine	Filing instructions sent	8/21/00; Power of attorney		Renewal due 3/9/08	Renewal due 10/12/10	Awaiting certificate;	Renewal due 9/11/08		§§ 8 & 15 filed 3/20/94;	Kenewal due 7/26/08	"LINE" disclaimed; Renewal due 9/26/15	Description of the second	80/97/1 and maken	Renewal due 3/9/08		§§ 8 & 15 filled 4/5/94;	Merewal due 7/26/08	Renewal due 7/28/14	Filing instructions sent 8/21/00; Power of attorney	sent 10/16/00	Renewal due 3/9/08
	80008	Blasting agents													Detonating cord							Defonators for explosives					
1000	ASSOCIATE			Dreuer	Gowling	Bermeo	Arenales		Goodrich	Barbat	רמות	Hoet				Gowling	P	Веттео	Coodifich	- Cooding I				Bullimon	Arenales		Goodrich
1 (S)	DATE	7/26/88		1000	1/28/99	11/26/98			5/25/98	10/12/00		971708			7/26/88	9/26/00		11/26/98	B/30,00			7/26/88	7738/00	661027		127	1/31/98
REG. NO.	(Applin. No.)	1,497,633	(2.275.19R)	Thankso For	120,616AWI	I-6620-98	(12613)		577,355	321,433		(16823-87)			1,497,631	TMA533,470		1-6619-98	662504			1,497,635	TMA513.528		¥ Ž	583 223	202,223
FILING	DATE	12/21/87	3/21/00	10/30/07	i i i i i i i i i i i i i i i i i i i	8/22/97	N/A		3/8/88	3/23/00	\$mon9	OFERIB			12/2/1/87	10/30/97		8/22/97	3/9/98			12/21/87	10/30/97		Ç Ž	3/9/9R	25
COUNTRY		U.S.	Argentina	Canada		Ecuador	Guatemala		Mexico	Uruguay	Venezuela	Pianzaila			n.s.	Canada		Ecuador	Mexico			u.s.	Canada		Pariticular	Mexico	
MARK		HYDROMITE													LITE LINE						BOOK STAR	NOCK STAK					
F&S	DUCKEI NO.	AIN 5 0012	ATN 5 0012 AR	ATN 5 0012 CA	ATN 5.0012 EC	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	19.2100 e NIA		AIN 5 0012 MX	ATN 5 0012 UY	ATN 5 0012 VE			ATMEDOAN	AIN 5 0013	ATN 5 0013 CA		ATN 5 0013 EC	ATN 5 0013 MX		ATN 5 0014	1000	ATN 5 0014 CA	ATN 5 0014 GT		ATN 5 0014 MX	

* Country printed in boldface where mark is registered

F&S DOCKET NO.	MARK	COUNTRY*	FILING	REG. NO. (Appln. No.)	ISSUE DATE	FOREIGN	GOODS	COMMENTS
ATN 5 0015	SEISMIC STAR	r.s.	12/21/87	1,555,697	2/12/89		Electric blasting detonators for explosives used in	§§ 8 & 15 filed 4/28/95; Renewal due 9/12/09
ATN 5 0015 CA		Canada	10/30/97	TMA513,647	7/29/99	Gowling	seismic exploration	Hyphenated as SFISMIC.
ATN 5 0015 VE		Venezuela	8722/97	(16954.07)	0711100			STAR; Renewal due 7/28/14
				(16-50601)	987LL/6	Hoet		Awaiting certificate; Renewal due 9/11/08
AIN 5 0016	EMULINE	U.S.	5/6/88	1,595,231	5/8/90		Multiple explosive cartridges attached to a continuous langth of delonating cord	\$\$ 8 & 15 filed 7/26/96; \$\$ 8 & 9 declaration of use and renewal application filed
ATN 5 0016 GT		Guatemala	N/A	(12599)		Arenales		Filing instructions sent 8/21/00; Power of attorney
ATN 5 0016 MX		Mexico	3/9/88	579,630	6/28/98	Goodrich		Report of the Police
								one and areas
ATN 5 0017	SHOCK STAR	U.S.	8/15/88	1,535,200	4/18/89		Non-electric detonator consisting of a blesting cap and tube through which a shock signal is	\$§ 8 & 15 filed 10/27/94; Renewal due 4/18/09
ATN 5 0017 CA		Canada	10/30/97	TMA513,648	7/29/99	Gowling		Domestic Line
ATN 5 0017 GT		Guatemala	N.A	(12615)		Arenales		Filing instructions sent
ATN 5 0017 MX		Mexico	3/9/96	583,224	7/31/98	Goodrich		Perend de appro
ATN 5 0017 VE		Venezuela	8/22/97	(16955-97)	9/11/98	Hoet		Awaiting certificate; Renewal due 9/11/08
								2011 10 000 1011

* Country printed in **boldface** where mark is registered

COMMENTS	§§ 8 & 15 due 8/5/02; Renewal due 8/6/06	Renewal due 5/8/13	Renewal due 3/3/05	§§ 8 & 15 due 1/20/03; Renswal due 1/21/07	Renewal due 1/5/06	Renewal due 4/10/05	Renewal due 12/30/11	Renewal due 6/21/06	Renewal due 11/24/05	Renewal due 4/28/05	Renewal due 9/11/05	Awaiting certificate; Renewal due 9/11/08	Renewal due 4/7/05	§§ 8 & 15 due 12/18/01 Renewal due 12/19/05	Renewal due 11/18/12
GOODS	Low grain detoriating cord for explosives			Computer program for modeling blast design										Detonating cord for explosives	
FOREIGN ASSOCIATE		Ridout	Goodrich		Breuer	Callinan	MacRae	Villaseca	Cavalier	Goodrich	Rodrigo	Hoet	Kisch		Ridout
ISSUE	8/6/96	5/8/98	7/19/95	1/21/97	1/5/96	B/21/96	12/30/96	6/21/96	11/24/95	6/27/95	9/11/95	9/11/98	7/17/98	12/19/95	10/17/97
REG. NO. (Appin. No.)	1,991,965	494,268	497607	2,032,655	1,587,194	658144	468024	462,931	181333	495474	19322	(16956-97)	95/4443	1,942,445	485,700
FILING	9/13/94	2/3/85	3/3/85	9/15/94	4/7/95	4/10/95	4/7/95	5/24/95	7/25/95	4/28/95	4/21/95	8/22/97	4/7/95	10/17/94	2/3/85
COUNTRY*	u.s.	Canada	Mexico	U.S.	Argentina	Australia	Canada	Chile	Colombia	Mexico	Peru	Venezuela	S. Africa	u.s.	Canada
MARK	FINE LINE			QED										AQUALINE	
F&S DOCKET NO.	ATN 5 0018	ATN 5 0018 CA	ATN 5 0018 MX	ATN 5 0019	ATN 5 0019 AR	ATN 5 0019 AU	ATN 5 0019 CA	ATN 5 0019 CL	ATN 5 0019 CO	ATN 5 0019 MX	ATN 5 0019 PE	ATN 5 0019 VE	ATN 5 0019 ZA	ATN 5 0020	ATN 5 0020 CA

* Country printed in boldface where mark is registered

TRADEMARK REEL: 002347 FRAME: 0604

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F&S DOCKET NO.	MARK	COUNTRY	FILING	REG. NO. (Appln. No.)	ISSUE DATE	FOREIGN ASSOCIATE	80009	COMMENTS
ATN 5 0021	ENVIROSEIS	U.S.	3/6/95	2,044,644	3/11/97		Seismic explosives used in oil, gas, and mineral exploration	§§ 8 & 15 due 3/11/03; Renewal due 3/11/07
ATN 5 0021 AR		Argentina	4/11/95	1,588,109	1/11/96	Breuer		Borone die 444 000
ATN 5 0021 BO		Bolivia	4/26/95	C-63090	3/11/97	Rojas		Renewal due 1/1 1/06
ATN 5 0021 CA		Canada	4/7/95	491,319	3/12/98	МасКае		Renewal due 3/1/10/
ATN 5 0021 EC		Ecuador	4/5/95	1-297-97	3/3/97	Bermeo		Received due 30.07
ATN 5 0021 MX		Mexico	4/25/95	495476	6/27/95	Goodrich		Repayal the 40005
ATN 5 0021 PE		Peru	1/21/00	005591	4/28/00	Rodrigo		Renewal due 478/10
ATN 5 0021 VE		Venezuela	96/11/12	(10303-85)	1/3/97	Hoet		Awaiing certificate; Banawal due 1990
								DICTI PRO PROJECT
ATN 5 0022	HYDROX	U.S.	9/16/97	2,207,019	12/1/98		Explosives, namely, unsensitized	§§ 8 & 15 due 12/1/04; Renewal due 12/1/08
ATN 5 0022 AR		Argentina	3/23/00	(2.275.868)		Breuer	arrusion/dxidizer	
ATN 5 0022 BR		Brazil	3/27/00	(822098652)		Pinheiro		Power of attorney and company affidavit sent to
ATN 5 022 UY		Uruguay	3/23/00	321,432	10/12/00	Barhet		One in 1900
								Renewal due 10/12/10
ATN 5 0023	SCOTCH CORD	U.S.	9/16/97	2,270,242	8/17/99		Detonating cord	§§ 8 & 15 due 8/17/05; Renewal due 8/17/09
ATN 5 0023 CA		Canada	10/30/97	TMA530,806	8/8/00	Gowling		*CORD* disclaimed 8/6/98; Renewal due 8/8/15

* Country printed in boldface where mark is registered

F&S DOCKET NO.	MARK	COUNTRY	FILING	REG. NO. (Appln. No.)	ISSUE DATE	FOREIGN	80009	COMMENTS
ATN 5 0024	TRIM LINE	u.s.	9/16/97	2,258,691	7/6/99		Detonating cord	§§ 8 & 15 due 7/8/05;
								Notice and Toros
ATN 5 0026	EMUTRENCH	u.s.	11/10/97	2,252,862	6/15/99		Explosive substances, namely an emulsifier water in oil mixture of	§§ 8 & 15 due 6/15/05; Renewal due 6/15/09
ATN 5 0028 GT		Guatemala	NA	(12600)		Arenales	varous chemicais	Filing instructions sent 8/21/00; Power of attorney
								Sent Joy (Orange)
ATN 5 0029	3-D STAR	U.S.	10/9/98	2,320,813	2722/00		Detonators for explosives used in seismir exploration	§§ 8 & 15 due 2/22/06; Renewal due 2/22/10
ATN 5 0030	ENVIROPRIME	U.S.	11/5/99	(75/841,324)			Biogradable explosives	Approved for publication on 8/13/00
ATN 5 0030 AR		Argentina	3/31/00	(2.278.023)		Breuer		Opposition period expired
ATN 5 0030 BO		Bolivia	1/26/00	(00905)		Rojas		Filing instructions sent 1/15/00; filing particulars for U.S. application sent 3/16/00
ATN 5 030 EC		Ecuador	A/A	N/A		Bermeo		Filing instructions sent
ATN 5 0030 PE		Peru	A/N	¥X		Rodrigo		Filing instructions sent 1/15/00; filing particulars and certified copy of U.S.
								application sent 3/16/00

* Country printed in boldface where mark is registered

F&S DOCKET NO.	MARK	COUNTRY*	FILING	REG. NO. (Appin. No.)	ISSUE DATE	FOREIGN	80009	COMMENTS
ATN 6 0033	AUSTIN	u.s.	3/21/00	(76/005,823)			Blasting products, including bulk and packaged explosives, detonators for explosives, detonating cord, and detonator couneding biocks.	Amendment & response filed 3/19/01
ATN 5 0033 BR		Brazil	8/3/00	(822494639)		Pinheiro		Certified copy of U.S. priority application sent 10/16/ng
ATN 5 0033 GT		Guatemala	¥ iN	(12592)		Arenales		Filing instructions sent 8/21/00; Power of attorney sent 10/16/00; application appears to be for AUSTIN
ATN 5 0033 UY		Uruguay	8/3/00	(324,981)		Barbai		Filling instructions sont 2000
								COZZI NICE ELONOMON R
ATN 5 0034	AUSTINITE	U.S.	8/2/00	(76/101,465)			Explosives	Response to Office Action due 9/6/01
AIN 5 0034 GT		Guatemala	K'N K'A	(125940		Arenales		Filing instructions sent 8/21/00; Power of attorney sent 10/16/00
TO 1000 I								
AIN 5 0035 GI	TIMESTAR	Guatemala	X X	(126160		Arenales		Filing instructions sent 8/21/00; Power of attorney sent 10/16/00

* Country printed in boldface where mark is registered

U.S. and Foreign Filing for Detonator Packaging Invention of John Capers (7/16/01)

COUNTRY	DOCKET NO.	PATENT NO.	ISSUE DATE	FILING DATE	A PDI N NO	Oznalis (COLLA)	
United States	ATN 2 025	S 973 ASS	2000		Oki Wa	ALIUKKETS	REMARKS
Supra Supra	C70.7 XIV	J, 6 / 3, 433	66/57/7	11/25/97*	08/978,092	Fay, Sharpe	Next maintenance fee due
							between 2/23/02 and 8/23/02: evnires
							11/20/15; claims directed
United States	ATN 2 025-2	5,996,777	12/7/99	1/8/00*	271 70000		to mentalizate casang.
		•			795,352	Fay, Sharpe	Next maintenance fee due
							67703; expires 11/20/15;
							claims directed to
							packaging comprising
Australia	ATN 2 025 AU	708713	11/25/99	11/20/96**	11214/97	Surrectin & Fermison	for committee de 11 marior
							working required after 11/25/02; expires
Dunail	H. 17. 0. 0. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.						11/20/16
DIRZII	X8 CZ0 Z N1A			11/20/96**	P19611630-7	Danneman Siemsen	Instructions for
			·			Bigler & Ipanema Moreira	responding to Office Action sent 6/25/01
Canada	ATN 2 025 CA	2,238,046	10/31/00	11/20/96**	2,238,046	Sim & McBumey	Expires 11/20/16: next
			:			•	maintenance fee due
Chile	ATN 2 025 CL			11/20/96	2045-96	Estudio Federico	Pending opposition filed
!	2					Villaseca	by Tec Harseim S.A.I.C.;
Czech Remublic	ATN 2 025 CZ			13 20005**	200 00000000000000000000000000000000000		ocincii pali astrodeor
				11/20/96**	PV 1550-98	Kador & Partner	Examination requested 9/11/98
Buropet	ATN 2 025 EP			11/20/96**	96 942 029.8	Kador & Partner	Examination requested;
							application published 11/9/98

COUNTRY	DOCKET NO.	PATENT NO.	ISSUE DATE	FILING DATE	APPLN. NO.	ATTORNEYS	OAGY MAG
							Mentana
Mexico	ATN 2 025 MX			11/20/96**	983976	Goodrich, Riquelme	Goodrich, Riqueline Amendment filed 8/16/99
						2 resources	
Peri	ATN 2 025 PE			11/21/961†		Rodrigo, Elias &	Notice of Allowance
						TAXCAL BILLO	ISSUED SYLVAI
South Africa	ATN 2 025 ZA	96/9718	8/27/97	11/20/96	96/9718	John & Kemick	Annuity due 11/20/00;
101							patent expires 11/20/16.
	O THE STATE OF THE PARTY OF THE						•

Effective filing date is November 20, 1995, filing date for original U.S. application.

This is the filing date for the underlying PCT application.

All member states of the European Patent Office have been designated (Austria, Belgium, Switzerland & Liechtenstein, Germany, Denmark, Spain, Finland, France, United Kingdom, Greece, Ireland, Italy, Luxembourg, Monaco, Netherlands, Portugal, and Sweden).

The actual filing date for this application currently is subject to dispute based on the date the Spanish translation was filed.

TRADEMARK

-2-

REEL: 002347 FRAME: 0609

U.S. and Foreign Filing for Shock Tube Connector Invention of John Capers and Goran Jidestig (7/16/01)

United States ATIN 2 0004 PATENT NO. ISSUE DATE ATIORNERYS FILING APPLA. NO. United States ATIN 2 0004 ATIN 2 0004.2 Fey, Shurpe 37.99 09.056.9.818 18 8 United States ATIN 2 0004.2 Fey, Shurpe 10.20.00 09/693,110 AI Angentina ATIN 2 0004.AR G. Breuer 3/699 P99 01 00573 RA Argentina ATIN 2 0004 AR2 G. Breuer 3/699 P99 01 00568 Ra Camada ATIN 2 0004 CL McBurney Sim &								
Pay, Sharpe DATE	COUNTRY	DOCKET NO.	PATENT NO.	ISSUE DATE	ATTORNEYS	FILING	APPLN, NO,	REMARKS
Fay, Sharpe Fay, Sharpe 372/99 69/260/818 Fay, Sharpe 10/20/00 69/693,110 Fay, Sharpe 10/20/00 Fay, Sharpe 10/20/00 10/20/20 Fay, Sharpe 10/20/20 Fay, Sharpe 10/20/20 10/20/20 Fay, Sharpe 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/20/20 10/	United States	ATN 2 0004			1	DATE		
Pay, Sharpe 1020/00 09/693,110 1020/00 09/693,110 1020/00 09/693,110 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1020/00 1			*****************		ray, Sharpe	3/2/99	09/260,818	Issue fee due
ATIN 2 0004 AR ATIN 2 0004 CL ATIN	United States	ATN 2 0004-2			į			block claims
C. Breuer 378/99 P99 01 00973					ray, Sharpe	10/20/00	09/693,110	Amendment filed 7/3/01; divisional of 09/260.818:
C. Breuer 3/8/99 P99 01 00973	Argentina	ATN 2 0004 AR						detonator claims
Ca. Breuer Z/17/00 P00 01 00668 Sim & Z/17/00 Z/17/00	Argentina	ATM 2 0004 4 B2			G. Breuer	3/8/99	P99 01 00973	Response to Office Action filed 2/17/00
rda ATIV 2 0004 CA Sim & ATIV 2 0004 CA Sim & ATIV 2 0004 CL Sim & ATIV 2 0004 CL	•	7 TO 100 7 TO 100 100 100 100 100 100 100 100 100 10			G. Breuer	2/17/00	P00 01 00668	Request for
rida ATN 2 0004 CA Sim & McBurney 3/4/99 2322653 sean Patent Cond CL ATN 2 0004 CL Estudio Federico Villaseca 3/8/99 418-99 tKong ATN 2 0004 HK Kador & Sandor &								examination due 2/17/03; divisional of P99 01 00973;
ATN 2 0004 CL	Canada	ATN 2 0004 CA						detonator claims
pean Patent ATN 2 0004 CL Estudio Federico 3/8/99 418-99 pean Patent ATN 2 0004 BF Rador & Partners 1/14/01 99 91 7 303.2 Kong ATN 2 0004 PE Rodrigo, Elias & Patrners 1/14/01 01104117.9 1/14/01 Africa ATN 2 0004 ZA 99/1788 10/27/99 D.M. Kisch Inc. 3/5/99 99/1788 6					Sim & McBurney	3/4/99	2322653	Request for examination due
pean Patent ATN 2 0004 EP Kador & 3/4/99 418-99 Kong ATN 2 0004 HK Hastings & Co. 7/14/01 01104117.9 10104117.9 ATN 2 0004 PB ATN 2 0004 ZA 99/1788 10/27/99 D.M. Kisch Inc. 3/5/99 99/1788 1	Chile	ATN 2 0004 CL			Hetndin Dodonia	5		3/4/04
Rough ATN 2 0004 BP Rador & Partners 3/4/99 99 917 303.2 Kong ATN 2 0004 HK ATN 2 0004 PB Rodrigo, Elias & 3/3/99 3/3/99 01956 Africa ATN 2 0004 ZA 99/1788 10/27/99 D.M. Kisch Inc. 3/5/99 99/1788					Villaseca	3/8/99	418-99	Awaiting substantive examination
Kong ATN2 0004 HK Hastings & Co. 7/14/01 01104117.9 ATN2 0004 PE Rodrigo, Elias & Medrano 3/3/99 01956 Africa ATN2 0004 ZA 99/1788 10/27/99 D.M. Kisch Inc. 3/5/99 99/1788	Office	AIN 2 0004 EP			Kador & Partners	3/4/99	99 917 303.2	Published 12/27/00
ATN 2 0004 PB Rodrigo, Elias & 3/3/99 01956 Medrano 1 Africa ATN 2 0004 ZA 99/1788 10/27/99 D.M. Kisch Inc. 3/5/99 99/1788	Hong Kong	ATN 2 0004 HK			Hastings & Co.	7/14/01	01104117.9	Extension of EPO
Africa ATN 2 0004 ZA 99/1788 10/27/99 D.M. Kisch Inc. 3/5/99 99/1788	Peru	ATN 2 0004 PR						application
ATN 2 0004 ZA 99/1788 10/27/99 D.M. Kisch Inc. 3/5/99 99/1788					Rodrigo, Elias & Medrano	3/3/99	01956	Awaiting substantive
expi	South Africa	ATN 2 0004 ZA	99/1788		D.M. Kisch Inc.	3/5/99	99/1788	lst annual renewal
								expiration 3/5/19

EXHIBIT A

ASSIGNMENT

THIS DOCUMENT SHALL BE HELD BY AGENT, FOR THE BENEFIT OF THE BANKS, IN ESCROW PURSUANT TO AND IN ACCORDANCE WITH THE PROVISIONS OF THE INTELLECTUAL PROPERTY COLLATERAL ASSIGNMENT AGREEMENT (THE "AGREEMENT"), DATED AS OF JUNE 29, 2001, EXECUTED BY AUSTIN POWDER COMPANY, AN OHIO CORPORATION ("PLEDGOR"), IN FAVOR OF KEYBANK NATIONAL ASSOCIATION, AS AGENT FOR THE BANKS, AS DEFINED IN THE AGREEMENT (TOGETHER WITH ITS SUCCESSORS AND ASSIGNS, "AGENT"). BY SIGNING IN THE SPACE PROVIDED BELOW, THE UNDERSIGNED OFFICER OF AGENT CERTIFIES THAT AN EVENT OF DEFAULT, AS DEFINED IN THE AGREEMENT, HAS OCCURRED AND THAT AGENT HAS ELECTED TO TAKE POSSESSION OF THE COLLATERAL, AS DEFINED BELOW, AND TO RECORD THIS DOCUMENT WITH THE UNITED STATES PATENT AND TRADEMARK OFFICE. UPON RECORDING OF THIS DOCUMENT WITH THE UNITED STATES PATENT AND TRADEMARK OFFICE, THIS LEGEND SHALL CEASE TO HAVE ANY FORCE OR EFFECT.

as Agent
By:
Name:
Title:
Date:

ASSIGNMENT

WHEREAS, AUSTIN POWDER COMPANY, an Ohio corporation ("Pledgor"), is the owner of the Collateral, as hereinafter defined;

WHEREAS, Pledgor has executed an Intellectual Property Security Agreement, dated as of June 29, 2001 (as the same may from time to time be amended, restated or otherwise modified, the "Agreement"), in favor of KEYBANK NATIONAL ASSOCIATION, as Agent for the Banks, as defined in the Agreement (together with its successors and assigns, "Agent"), pursuant to which Pledgor has granted to Agent, for the benefit of the Banks, a security interest in and collateral assignment of the Collateral as security for the Debt, as defined in the Agreement;

WHEREAS, the Agreement provides that the security interest in and collateral assignment of the Collateral is effective as of the date of the Agreement;

WHEREAS, the Agreement provides that this Assignment shall become effective upon the occurrence of an Event of Default, as defined in the Agreement, and Agent's election to take actual title to the Collateral;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and intending to be legally bound hereby, Pledgor, its successors and assigns, subject to the limitations stated in the paragraph immediately following, does hereby transfer, assign and set over unto Agent, for the benefit of the Banks, and their respective successors, transferees and assigns, all of its existing and future (a) patents, patent registrations, patent applications, trademarks, trademark registrations, trademark applications and copyright registrations, whether federal or state; (b) common law trademark rights, copyrights, improvements and inventions; (c) renewals, proceeds on infringement suits, and rights to sue for past, present and future infringements relating to any of the foregoing; (d) goodwill associated with any of the foregoing; and (e) proceeds of any of the foregoing (collectively, the "Collateral"), including, but not limited to, the Collateral listed on Schedule 1 hereto that is registered in the United States Patent and Trademark Office in Washington D.C. or that is the subject of pending applications in the United States Patent and Trademark Office.

This Assignment shall be effective only upon certification of an authorized officer of Agent, as provided above, that (a) an Event of Default, as defined in the Agreement, has occurred, and (b) Agent, on behalf of the Banks, has elected to take actual title to the Collateral.

IN WITNESS WHEREOF, the undersigned has caused this Agreement to be executed by its duly authorized officer on June 29, 2001.

AUSTIN POWDER COMPANY
By:
Name:
Title:

THE STATE OF OHIO
) SS: COUNTY OF CUYAHOGA)
BEFORE ME, a Notary Public, the undersigned, on this day personally appeared, known to me to be the person and officer whose name is
subscribed to the foregoing instrument and acknowledged to me that the same was the act of AUSTIN POWDER COMPANY, an Ohio corporation, and that she/he executed the same as the act of such corporation for the purposes and consideration therein expressed and in the capacity therein stated.
GIVEN UNDER MY HAND AND SEAL OF OFFICE this day of June, 2001.
Notary Public

13

SCHEDULE 1

AUSTIN POWDER COMPANY TRADEMARK PORTFOLIO (7/16/01)

F86	MARK	COUNTRY					(110/01)	
KET NO.			DATE	REG. NO. (Appin. No.)	ISSUE	FOREIGN	80009	
ATN 5 0006	AUSTIN	U.S.	07/23/33	308.311	147022	ASSOCIATE		COMMENTS
	050T				55,021		Blasting powder, sellet powder, dynamite,	\$\$ 8 & 15 rec'd 10/28/54; Renewal due 14 mans
ATN 5 0008 AR							permissible explosives,	\$0/07/11 pnp 15:10:10
		Argentina	4/16/99	(2.214.197)			caps, and exploders	
OS 9000 C N I V		Bolivia	3/24/00	(0/8/70)		Dieder		Opposition period
ATN 5 0006 CZ		Czech Ren	47.400	(0)1010)		Rojas		Daudya notod
ATN 5 0006 GR			2011 711	181022	6/26/00	Kador		
ATN 5 0006 CT		909915	5/10/99	(140515)		Kvoris		Renewal due 4/21/09
5		Guatemala	N/A	(12617)		Argostos		Accepted for publication
								Filing Instructions sent
ATN 5 0006 PE		Peru	303mn	// 00000				6/21/00; Power of afforney sent 10/18/no
ATN 5 0006 PT		1	200	(103065)		Rodrigo		000
		lagario L	4/21/08	(336802)	11/10/99	Pereira		
ATN 5 0006 UY								Awaiting certificate;
		ologuay Marie	3/23/00	321,431	10/13/00	Barbat		60/01/11 008 11/10/08
			No.					Renewal due 10/13/10
ATN 5 0007	COALMEX	U.S.	12/21/87	4 407 600				
				1,487,032	7726/88		Explosives	25.00.00
								28 o c. 15 nied 3/30/94; Renewal due 7/26/08
ATN 5 0008	COAL STAR	U.S.	12/21/87	1 407 @				
				Company in	1120/88		Detorrators for	§§ 8 & 15 filed 4/5/94;
							Spalendy	Renewal due 7/26/08

* Country printed in botdface where mark is registered

	30000		High explosives 68 8 & 15 flad 4000	Renewal due 4/18/09		Opposition period expired	Renewal due 11/26/08		8/21/00; Power of attorney		Renewal due 3/9/08		Renewal due 10/1		Explosives 68 8.2.15 single and an analysis	Renewal due 7/26/08		Opposition period expired	Renewal due 7/28/14	Renewal due 1172ens		8/21/00; Power of attorney		Renewal due 3/9/08		0L/ZL/0 lengingual		opposition sent 10/5/98		Non-nitrogiycerin §§ 8 & 15 filed 3/20/84	
FORFIGN		ASSOCIATE			Breuer	Remes		Arenales			Goodrich	Barbat					Breuer	Solution	Si Mario	Bermeo	Arenales			Goodrich	Barbat	Logi	1				
	ISSUE	MAIE	4/18/89			11/26/98				677CTO	DECOR	10/12/00			7/26/88			7/28/89		11/26/98				9/30/00	10/12/00	-2	I FAMILIES			7/26/88	
	REG. NO.	Com and A	1,53 5,1 99	(7) 37E 00000	(5.270.808)	H6621-98	(12597)	(1000)		577354		321,435		4 400 000	1,487,634	100	(2.275.197)	TMA513,525	1,6822.00	08-7700-1	(12598)		000000	002503	321,434	(16962-97)				1,487,630	
	FILING DATE	40,04,05	10/17/71	32300	3	8/22/97	AN			3/9/98	200000	3/23/00		19/94/87	10/1 7/7/	20100	NE INC	10/30/97	757.67		₹ Z		3,0,00	0000	3/23/00	8/22/97			400.00	12/21/87	40000
	COUNTRY	=	<u>;</u>	Argentina		Ecuador	Guatemala			Mexico	Uniona	(Bodo lo		U.S.		Argentina	P	Canada	Ecuador		Gualemala		Mexico		Uruguay	Venezuela			911	U.S.	Conside
MADY		EMULEX												FEET															HEILY	V	
FESS	DOCKET NO.	ATN 5 0009		ATN 5 0009 AR	ATN 5 0009 EC		AIN 5 0009 GT		ATALE GOOD AND	AIN 5 0009 MX	ATN 5 0009 UY			ATN 5 0010		ATN 5 0010 AR	ATM 6 0040 CA	AIN DOOD CAN	ATN 5 0010 EC	ATN 5 0010 GT			ATN 5 0010 MX	ATN F 0010 IN	TO O O O O O O O O O O O O O O O O O O	ATN 5 0010 VE			ATN 5 0011		ATN 5 0011 CA

* Country printed in boldface where mark is registered

223	TABY	***************************************	i					
DOCKET NO.	W. Carlotte	- LOON RT	DATE	(Appin. No.)	ISSUE DATE	FOREIGN ASSOCIATE	goods	COMMENTS
ATN 5 0012	HYDROMITE	U.S.	12/21/87	1,497,633	7/26/88		Blasting agents	§§ 8 & 15 filed 3/30/94;
ATN 5 0012 AR		Argentina	3/21/00	(2.275.196)		Region		Renewal due 7/26/08
ATN 5 0012 CA		Canada	10/30/97	TMAK42 E97	10000			Opposition period expired
ATK COOST FO			180000	170°01 00011	1728/98	Gowling		Renewal due 7/28/14
AINOWIZEC		Ecuador	8/22/97	1-6620-98	11/26/98	Вептео		Renewal due 11/26/08
ATN 5 0012 GT		Guatemala	N/A	(12613)		Arenales		Filing instructions sent 8/21/00; Power of attorney
ATN 5 0012 MX		Mexico	3,0,00	K77 3KK	60000			8ent 10/16/00
2000 200			200	000	9845745	Goodrich		Renewal due 3/9/08
AIN 5 0012 UY		Uruguay	3/23/00	321,433	10/12/00	Barbat		Renewal due 10/12/10
ATN 5 0012 VE		Venezuela	8122197	(18953-97)	8/11/08	Hoet		Awaiting certificate;
								Vallewal due 3/11/08
ATN 5 0013	LITE LINE	U.S.	12/21/87	1,497,631	7/26/88		Detonating cord	\$§ 8 & 15 filed 3/20/94; Renewal due 7/26/08
ATN 5 0013 CA		Canada	10/30/97	TMA533,470	9/26/00	Gowling		"LINE" disclaimed; Renewal due 9/26/15
ATN 5 0013 EC		Ecuador	8/22/97	1-6619-98	11/26/98	Ветео		Renewal due 11/26/08
ATN 5 0013 MX		Mexico	3/9/98	582504	8/30/00	Goodrich		Renewal due 3/9/08
ATN 5 0014	ROCK STAR	U.S.	12/21/87	1,497,635	7/26/88		Detonators for explosives	§§ 8 & 15 fled 4/5/94; Renewal due 7/26/08
ATN 5 0014 CA		Canada	10/30/87	TMA513,528	7/28/99	Gowling		Renewal due 7/28/14
ATN 5 0014 GT		Guatemala	¥X	N/A		Arenales		Filing instructions sent 8/21/00; Power of attorney sent 10/16/00
ATN 5 0014 MX		Mexico	3/8/88	583,223	7/31/98	Goodrich		Renewal due 3/9/08

* Country printed in boldface where mark is registered

F&S DOCKET NO.	MARK	COUNTRY*	FILING	REG. NO.	ISSUE	FOREIGN	GOODS	COMMENTS	
ATN 5 0016	SEISMIC STAR	U.S.	12/21/87	1 565 002	2716	ASSUCIALE			
				/Ro'coc'	2/12/89		Electric blasting detonators for explosives for	§§ 8 & 15 filed 4/28/95; Renewal due 9/12/09	
ATN 5 0015 CA		County	10,000				seismic exploration		
		Canada	19/08/	TMA513,847	7729/99	Gowling		Hyphenated as SEISMIC	_
ATN 5 0015 VE		Venezuela	8/22/97	(18054.07)	2000			STAR; Renewal due 7/28/14	
				(18-4cen1)	8871 F.	Hoet		Awaiting certificate;	
								Kenewal due 9/11/08	
ATN 5 0018	EMULINE	U.S.	5/R/RR	4 FOE 224					
			8	167,050,1	08 88 6		Multiple explosive cartridges attached to a continuous length of	§§ 8 & 15 filed 7/28/96; §§ 8 & 9 declaration of use and renewal application filed	
ATN 5 0018 GT		Gustomala	AVA	7407000			delonating cord	3/10/00	
		Billion	Ç.	(12398)		Arenales		Filing instructions sent 8/21/00; Power of attorney	
ATN 5 0018 MX		Mexico	3/9/88	579.830	6/20/08	100000		sent 10/16/00	
						Goodingn		Renewal due 3/9/08	
- 700									
AIN 5 0017	SHOCK STAR	U.S.	8/15/188	1,535,200	4/18/89		Non-plontile defende		
İ							consisting of a blesting cap and tube through which a shock signal is	55 8 & 15 filed 10/27/94; Renewal due 4/18/09	
ATN 5 0017 CA		Canada	10/30/97	TMA513,848	7/29/99	Conding	ii ansamilled		
ATN 5 0017 GT		S. intermedia	417			Birth Control		Renewal due 7/28/14	
			NA	(12615)	and recognized and the second	Aremales		Fiftng instructions sent 8/21/00; Power of attorney	
ATN 5 0017 MX		Mexico	3/9/98	583,224	7/31/98	Goodrich			
ATN 5 0017 VE		Venezuela	200000	(480EE OT	2007			Netrewall due 3/8/08	
			0.55.0	(10-00001)	250 L	Hoet		Awaking certificate; Renewal due 9/11/08	

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COMMENTS	§§ 8 & 15 due 8/5/02;	Kenewal due 8/6/06	Renewal due 5/8/13	Renewal due 3/3/05		§§ 8 & 15 due 1/20/03;	Kenawai due 1/21/07	Kenewal due 1/5/06	Renewal due 4/10/05	retrewal due 12/30/11	Kenewal due 6/21/08	Renewal due 11/24/05	Renewal due 4/28/05	Renewal due 9/11/05	Awaiting certificate; Renewal due 9/11/08	Renewal due 4/7/05	§§ 8 & 15 due 12/18/01 Renewal due 12/19/05	Renewal due 11/18/12
80009	Low grain detorating	מות ומן פעיומה.אפא				Computer program for	InRiedo sego Rimono										Detonating cord for explosives	
FOREIGN ASSOCIATE		O. C. C.	Nadoul	Goodrich			Rreiner	Callinan	MacRae	Villaceco	:	Cavaler	Goodrich	Rodrigo	Hoet	Kisch		Ridout
ISSUE DATE	8/6/96	5/R/08	3	7/19/95		1/21/97	1/5/86	8/21/96	12/30/96	6/21/96	3	1 IZARBO	6/27/95	9/11/85	9/11/98	7/17/98	12/19/95	10/17/97
REG. NO. (Appin. No.)	1,991,965	494.268	- COLON	497607	,	2,032,655	1,587,194	658144	488024	462.931	404999	50000	495474	19322	(16958-97)	95/4443	1,942,445	485,700
FILING	9/13/84	2/3/95	3000	CRICA		9/15/94	4/7/95	4/10/95	477.85	5/24/95	775505	CONTI	4/28/95	4/21/95	8/22/97	4/7/95	10/17/94	23/85
COUNTRY*	U.S.	Canada	Movies	MOAICO		U.S.	Argendna	Australia	Canada	Chile	Colombia		Mexico	Peru	Venezuela	S. Africa	U.S.	Canada
MARK	FINE LINE		1			GED											AQUALINE	
F&S DOCKET NO.	ATN 5 0018	ATN 5 0018 CA	ATN 5 0018 MX			ATN 5 0019	ATN 5 0019 AR	ATN 5 0019 AU	ATN 5 0019 CA	ATN 5 0019 CL	ATN 5 0019 CO		ATN 5 0019 MX	ATN 5 0019 PE	ATN 5 0019 VE	ATN 5 0019 ZA	ATN 5 0020	ATN 5 0020 CA

* Country printed in boldface where mark is registered

							·																	
	COMMENTS		§§ 8 & 15 due 3/11/03:	Renewal due 3/11/07		Renewal due 1/11/06	Renewal due 3/11/07	Renewal due 3/12/13	Renewal due 2007	Colors and later and	Renewal due 4/28/05	Renewal due 4/28/10	Awailing certificate.	Renewal due 1/3/07		§§ 8 & 15 due 12/1/04; Renewal due 12/1/08		Opposition period expired	Power of attorney and company affidavit sent to	associate 4/19/00	Renewal due 10/12/10	§§ 8 & 15 due 8/17/05;	Renewal due 8/17/09	*CORD* disclaimed 8/8/98; Renewal due 8/8/15
•	GOODS		Saismic explosives	mineral exploration												Explosives, namely, unsensitized	emulsion/oxidizer					Detonating cord		
	FOREIGN	ASSOCIATE			Breuer		Rojas	MacRae	Bermeo	Goodrich	Rodrino	Office of the second	Hoef					Breuer	Pinheiro		Barbat			Gowling
	ISSUE	NA IE	3/11/97		1/11/96	2/44.007	IRI LA	3/12/98	3/3/87	8/27/95	4/28/00	4.0.001	/B/E/L		000 1/67	881.771				400000	00/2 L/DI	8/17/99		008/80 008/80
	REG. NO.	from model at	2,044,644		1,588,109	C-83090	276 707	916,19	1-297-97	495475	005591	(40302.05)	(ca-caca)		2 207 040	20.00	(7.27K 8AB)	(00000	(822098652)	324 427	704,120	2,270,242	TAIRESO OCC	000°000
	FILING	2000	GADOS		4/11/85	4/26/95	4770E	201111	CRICI1	4/25/95	1/21/00	7/17/95	}		9/16/97		3/23/00		3/27/00	30300		9/16/97	10/20/07	
	COUNTRY	9 <u>=</u>			Argentina	Bolivia	Canada	Petroder	IONBOAT	Mexico	Peru	Venezuela			U.S.		Argentina		Brazil	Unguav		U.S.	Canada	
	MARK	ENVIROSEIS													HYDROX							SCOTCH CORD		
0,61	DOCKET NO.	ATN 5 0021		ATN 5 0021 AR		ATN 5 0021 BO	ATN 5 0021 CA	ATN 5 0021 EC	ATN 5 0021 MX	Val. 1	AIN 5 00Z1 PE	ATN 5 0021 VE			AIN 5 0022		ATN 5 0022 AR	ATN 5 0022 BD	NO 7700 C 1115	ATN 5 022 UY		ATN 5 0023	ATN 5 0023 CA	

* Country printed in boldface where mark is registered

r		_			250				O.	New Y		,	100		_				-	
COMMENTE		§§ 8 & 15 due 7/8/05:	Renewal due 7/6/09	語のは、「は、「は、」という。	§§ 8 & 15 due 6/15/05; Renewal due 6/15/00		Filing instructions sent	8/21/00; Power of attorney sent 10/16/00			\$\$ 8 & 15 due 2/22/06; Renewal due 2/22/10			Approved for publication on	DOMESTO	Opposition period expired	Filing instructions sent 1/15/00; filing particulars for	Filing instructions sent	4/26/01	Filing instructions sent
3000S		Detonating cord			Explosive substances, namely an emulsitier	water in oil mixture of various chemicals				Defroetors (e.	explosives used in selsmic exploration		(6)	Biogradable explosives						
FOREIGN	ASSOCIATE						Arenales								President		Rojas	Вептео		Kodrigo
ISSUE	7550	RR/D/			6/15/99					272200										
REG. NO.	2.258 (201				2,252,862		(12600)			2,320,813			(TE1944 204)	(15)541,324)	(2.278.023)	1100007	(chean)	N/A	MA	
FILING	9/16/97			447000	Amilia		Y/A			10/9/88			11/5/00	ROWIL	3/31/00	4.20.00	Populari de la companya de la compan	AIN	A/N	
COUNTRY	U.S.			311	<u>;</u>		Guatemala			C.S.			S		Argentina	Rolltain		Ecuador	Peru	
MARK	TRIM LINE			EMUTRENCH						3-DSTAR			ENVIROPRIME							
DOCKET NO.	ATN 5 0024			ATN 5 0026		ATN 5 0028 GT			ATN 5 nnoo	8700 C 1114			ATN 5 0030		ATN 5 0030 AR	ATN 5 0030 BO		ATN 5 030 EC	ATN 5 0030 PE	

* Country printed in boldface where mark is registered

Cananing		Amend									
Dag ii B	explosives, defonating cord, and detonator	connecting blocks						Explosives			
ASSOCIATE		Pinheiro		Arenales		Barbai			Arenales	Arenales	
DATE											
(Applin, No.)	(76/005,823)	(822494639)	140600	(78c7)		(324,981)		(76/101,465)	(125940	(126160	
DATE	3/21/00	8/3/00	A/N			8/3/00		942400	Š Ž	N.A.	
	U.S.	Brazil	Guatemala		1	Oruguay	3	25	Guatemala	Guatemala	
	AUSTIN						ALICTINUTE		1	TIME STAR	
DOCKET NO.	AIN 5 0033	ATN 5 0033 BR	ATN 5 0033 GT		ATN 5 0033 UY		ATN 5 0034		AIN 5 0034 GT	ATN 5 0035 GT	

* Country printed in boldface where mark is registered

U.S. and Foreign Filing for Detonator Packaging Invention of John Capers (7/16/01)

COUNTRY	DOCKET NO.	PATENT NO.	ISSUE DATE	FILING DATE			
United States	ATN 2 025	5,873,455	2/23/99	1105.003	AFPLN, NO.	ATTORNEYS	REMARKS
				167711	08/978,092	Fay, Sharpe	Next maintenance fee due between 2/23/02 and 8/73.03.
I Inited States	23000						11/20/15; claims directed
	7-C707 NIW	5,996,777	12/1/99	1.78/99*	09/726,362	Fay, Skarpe	Next maintenance fee due between 1277/02 and
							claims directed to packaging comprising
Australia	ATN 2 025 AU	708713	11/25/99	11/20/96**	11214/97	Spruson & Perguson	Ist annuity due 11/20/01; working required after 11/25/02; expires
Brazil	ATN 2 025 BR			11/20/96*•	P19611630-7	Dannenan Siemsen Bigler & Ipanema	11/20/16 Instructions for responding to Office
Canada	ATN 2 025 CA	2,238,046	10/31/00	11/20/96*•	2,238,046	Morena Sim & McBumey	Action sent 6/25/01 Expires 11/20/16; next maintenance fee due
Chile	ATN 2 025 CL			11/20/96	2045-96	Estudio Federico Villasoca	11/20/01 Pending opposition filed by Tec Harseim S.A.I.C.;
Czech Republic	ATN 2 025 CZ			11/20/96**	PV1550-98	Kador & Partner	Examination requested 9/11/98
Buropet	ATN 2 025 BP			11/20/96**	96 942 029.8	Kador & Partner	Examination requested; application published 119/98

		_	SYS REMARKS	Goodrich, Rigneline	66/91/8 Datu mamonomy America				issued 5/29/01	T	A thursday dies 11 Money	
	ATTORNEYS		ALIORA	Goodrich, Riq		y Asociados Rodrigo, Eliza &		Total services	Medrano		John & Kernick	
		APPI.N. NO		923976						96/9718		
		FILING DATE		11/20/96**			11/21/9611			11/20/96		
	TSCITE DATE								0 777.00	1611719	_	
	PATENT NO.								96/0718	0.71		
	DOCKET NO. PATENT NO.		ATN 2025 MX			ATN 2 025 PB			ATN 2025 ZA			
ĺ	COUNTRY		MEXICO						South Africa			

Effective filing date is November 20, 1995, filing date for original U.S. application. This is the filing date for the underlying PCT application.

patent expires 11/20/16.

All member states of the European Patent Office have been designated (Austria, Belgium, Switzerland & Liechtenstein, Germany, Denmark, Spain, Finland, France, United Kingdom, Greece, Ireland, Italy, Luxembourg, Monaco, Netherlands, Portugal, and Sweden). The actual filing date for this application currently is subject to dispute based on the date the Spanish translation was filed,

-2-

U.S. and Foreign Filing for Shock Tube Connector Invention of John Capers and Goran Jidestig (7/16/01)

RECORDED: 08/02/2001

COUNTRY	DOCKET NO.	PATENT NO.	ISSUE DATE	ATTORNEYS	FILING	APPLN, NO.	REMARKS
United States	ATN 2 0004			Fay, Sharpe	3/2/99	09/260,818	Issue fee due 8/20/01; connector
United States	ATN 2 0004-2			Fay, Sharpe	10/20/00	09/693,110	block claims Amendment filed 7/3/01; divisional of 09/260,818;
Argentina	ATN 2 0004 AR			G. Breuer	3/8/99	P99 01 00973	detonator claims Response to Office
Argentina	ATN 2 0004 AR2			G, Breuer	2/17/00	P00 01 00668	Request for examination due 2/17/03; divisional of P99 01 00973; detonator claims
Carada	ATN 2 0004 CA			Sim & McBurney	3/4/99	2322653	Request for examination due
Chile	ATN 2 0004 CL			Estudio Federico Villaseca	3/8/99	418-99	Awaiting substantive examination
European Patent Office	ATN 2 0004 EP			Kador & Partners	3/4/99	99 917 303.2	Published 12/27/00
Hong Kong	ATN 2 0004 HK			Hastings & Co.	7/14/01	01104117.9	Extension of EPO application
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South Africa	ATN 2 0004 ZA	99/1788	10/27/99	D.M. Kisch Inc.	3/5/99	99/1788	1st annual renewal fee due 3/5/02; expiration 3/5/19