

05-12-2003

U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

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To the Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of Conveying party(ies):

**Dyno Nobel Inc.**

- Individual(s)
- General Partnership
- Corporation-State
- Association
- Limited Partnership
- Other

Delaware

Additional name(s) of conveying party(ies) attached?  Yes  No

3. Nature of conveyance:

- Assignment
- Security Agreement
- Other:
- Merger
- Change of Name

Effective Date: **May 2, 2003**

2. Name and address of receiving party(ies):

Name: **Nordea Bank Norge ASA**

Street Address: **Middelthunsgate 17, P.O. Box 1166  
Sentrum, Norway**

- Individual(s) citizenship: \_\_\_\_\_
- Association: \_\_\_\_\_
- General Partnership: \_\_\_\_\_
- Limited Partnership: \_\_\_\_\_
- Corporation-State: \_\_\_\_\_
- Other: \_\_\_\_\_

Additional name(s) & address(es) attached?  Yes  No

4. Application number(s) or registration number(s):

A. Trademark Application No.(s)

**76/077,812; 76/193,265; 78/217,317; 76/461,673;  
76/370,691; 75/828,658; 75/588,086; 76/397,393;  
75/027,450; 74/413,502**

B. Registration No.(s):

**1,864,244; 2,245,018; 2,195,276; 1,497,627; 2,084,810;  
2,082,318; 2,082,316; 2,082,315; 2,084,809; 916,577;  
798,703; 754,868; 2,111,208; 1,347,633; 1,587,806;  
769,362; 652,935; 345,773; 1,879,670; 1,847,662; 803,318;  
2,119,575; 2,223,024; 832,361; 1,546,317**

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

**David M. Viscomi, Esq.  
King & Spalding LLP  
1185 Avenue of the Americas  
New York, NY 10036-4003**

6. Total number of applications and trademark registrations involved: **35**

7. Total fee (37 C.F.R. § 3.41): **\$720**

- Enclosed
- Authorized to be charged to deposit account


8. Deposit account number: \_\_\_\_\_

DO NOT USE THIS SPACE

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.

Name: **David M. Viscomi, Esq.**

  
Signature

**May 9, 2003**  
Date

Total number of parts comprising cover sheet, attachment and document: **5**

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

**05/13/2003 DBYRNE 00000014 76077812**

**01 FC:8521 40.00 OP  
02 FC:8522 850.00 OP**

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**COLLATERAL ASSIGNMENT AND SECURITY AGREEMENT  
RELATING TO UNITED STATES TRADEMARKS AND PATENTS**

FOR GOOD AND VALUABLE CONSIDERATION, receipt and sufficiency of which are hereby acknowledged, Dyno Nobel Inc., a Delaware corporation (the "*Assignor*") with principal offices at Eleventh Floor Crossroads Tower, Salt Lake City, Utah 84144, hereby collaterally assigns and grants to Nordea Bank Norge ASA, as Security Trustee for certain lenders, with an address at Middelthunsgate 17, P.O. Box 1166 Sentrum, 0107 Oslo Norway (the "*Assignee*"), a security interest in (i) all of the Assignor's right, title and interest in and to the United States trademarks, trademark registrations and trademark applications (the "*Marks*") set forth on Schedule A attached hereto, (ii) all of the Assignor's right, title and interest in and to the United States patents and pending patent applications (the "*Patents*") set forth on Schedule B attached hereto, in each case together with (iii) all rights, benefits and privileges derived from, and all products, offspring, rents, issues, profits, returns, income and proceeds of and from, any and all of the Marks and Patents, (iv) the goodwill of the businesses with which the Marks are associated, and (v) all causes of action arising prior to or after the date hereof for infringement of any of the Marks and Patents or unfair competition regarding the same.

This collateral assignment and grant of security interest is made to secure the satisfactory performance and payment of all the Obligations of the Assignor, as such term is defined in the Amended and Restated Security Agreement by and between the Assignor and the Assignee, dated February 28, 2001, as amended and restated as of May 1, 2003 (as further amended, supplemented, modified or restated from time to time, the "*Security Agreement*"). Upon the satisfactory performance and payment in full of the Obligations, the Assignee shall, upon such satisfaction and payment, execute, acknowledge, and deliver to the Assignor an instrument in writing releasing the security interest in the Marks and Patents acquired under this Collateral Assignment and Security Interest.

This collateral assignment and grant of security interest has been made in conjunction with the security interest granted to the Assignee under the Security Agreement. The rights and remedies of the Assignee with respect to the security interest granted herein are without prejudice to, and are in addition to those set forth in the Security Agreement, all terms and provisions of which are incorporated herein by reference. In the event that any provisions of this agreement are deemed to conflict with the Security Agreement, the provisions of the Security Agreement shall govern.

IN WITNESS WHEREOF, the undersigned have executed this Collateral Assignment and Security Agreement as of the \_\_ day of May, 2003.

DYNO NOBEL INC., Assignor

By: *[Signature]*  
Name: *ODD ARILD STEEN*  
Title: *VP*

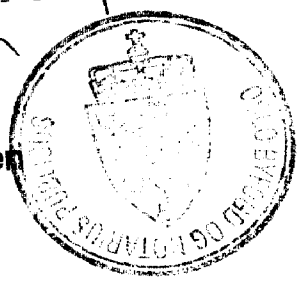
NORDEA BANK NORGE ASA,  
as Security Trustee, Assignee

By: *[Signature]*  
Name: *JAN RASMUSSEN*  
Title: *SUP*

The undersigned Notary Public hereby certifies that  
*Odd Arild Steen and Jan Rasmussen*  
signed this document in my presence.  
Oslo byfogd og notarius publicus, *30 april 2003*

*[Signature]*  
Notary Public

**Thorild Steen**  
konsulent



*[Handwritten mark]*

**SCHEDULE A**  
to Collateral Assignment and Security Agreement  
Relating to United States Trademarks and Patents

**U.S. TRADEMARKS, TRADEMARK REGISTRATIONS AND TRADEMARK APPLICATIONS**

<u>Mark</u>	<u>Application No.</u>	<u>Registration No.</u>
LOW FLEX	76/077,812	
PRIMASHEAR	76/193,265	
EZTL	78/217,317	
TWINPLEX	76/461,673	
DETTACORD	72/022,051	652,935
PRIMACORD	71/387,241	345,773
PRIMAFUSE	76/370,691	
EZ TRONIC	75/828,658	
EZ TRONIC	75/588,086	
EZ TRONIC	76/397,393	
DETTAFLEX	216,392	803,318
DETTAK	75/196,812	2,119,575
DIGIDET	75/027,451	2,223,024
E-CORD	211,888	832,361
EZ DET	763,071	1,546,317
EZ DRIFTER	74/380,439	1,864,244
GEOPRIME	75/282,538	2,245,018
GEOSEIS	75/317,181	2,195,276
LVST	662,846	1,497,627
OPTICORD	75/027,457	2,084,810
OPTIMIZER	75/027,456	2,082,318
OPTISLIDE	75/027,454	2,082,316
OPTISURFACE	75/027,453	2,082,315
OPTI-TL	75/027,452	2,084,809
PD CORD	72/325,023	916,577
PRIMADET	202,987	798,703
PRIMALINE	72/155,789	754,868
PRIMAPAK	75/027,499	2,111,208

<u>Mark</u>	<u>Application No.</u>	<u>Registration No.</u>
STRIP MINE SPECIAL	493,343	1,347,633
SUPER BULK	73/804,020	1,587,806
SWORD	167,808	769,362
OPTIDET	75/027,450	
DEBRIX	74/413,461	1,879,670
ECT	74/413,502	
PRIMALITE	74/450,675	1,847,662

**SCHEDULE B**  
**to Collateral Assignment and Security Agreement**  
**Relating to United States Trademarks and Patents**

U.S. PATENTS AND PATENT APPLICATIONS

<u>Title</u>	<u>Application No.</u>	<u>Patent No</u>
Self-Calibrating Timer Circuit for Electronic Delay Detonator	60/268,624	
Delay Detonator Timing Circuit	PCT/US02/04069	
Detonator With High Length-to-Diameter Ratio	60/286,165	
Non-Electric Detonator	PCT/US02/12803	
Hinged Connector Block	60/371,261	
Supply Method for Monitoring Borehole Position and Profiling MineFace after a Blast to Optimize Blast Performance	60/425,489	
Digital Delay Unit	PCT/US93/12319	
Fissile Shock Tube and Method of Making the Same	PCT/US97/11872	
Universal Isolation Member and Non-Electric Detonator Cap Including the Same	PCT/US95/14444	
Detonator Packaging System	PCT/US94/05197	
Connector for Blast Initiation System	PCT/US96/19548	
Alternate Signal Path Isolation Member and Non-Electric Detonator Cap Including the Same	PCT/US95/14445	
Isolation Member with Improved Static Discharge Barrier and Non-Electric Detonator Cap Including the Same	PCT/US95/13093	
Improved Signal Transmission Fuse	PCT/US95/11530	

Title	Application No.	Patent No
Molded Article Having Integral Displaceable Member or Members and Method of Use	PCT/US95/06359	
Connector Block Having Detonator-Positioning Locking Means	PCT/US96/15262	
Programmable Electronic Timer Circuit	PCT/US96/04471	
Shock Tube Assembly	PCT/US95/02590	
Fluid Activated Detonating System	PCT/US93/09683	
Method and Apparatus for Transfer of Initiation Signals	PCT/US96/19547	
Detonators Having Multiple-Line Input Leads	PCT/US96/20875	
Connector Block for Blast Initiation Systems	PCT/US96/15240	
Booster Explosive Devices with Explosive Accessory Charges	PCT/US97/00377	
Accessory Charges for Booster Explosive Devices	PCT/US97/00376	
Slider Member for Booster Explosive Charges	PCT/US97/00697	
Secure Connector for Blast Initiation Signal Transfer	PCT/US96/20893	
Signal Transmission Fuse and Method of Making the Same	PCT/US98/17554	
Signal Transmission Fuse and Method of Making the Same	PCT/US98/18022	
Shock-Resistant Electronic Circuit Assembly	PCT/US97/18484	
Initiator with Loosely Packed Ignition Charge and Method of Assembly	PCT/US98/06146	
Hybrid Electronic Detonator Delay Circuit Assembly	PCT/US97/22404	
Signal Line Coiling Method and Mine-Clearing Apparatus Using Same	60/051,138	
Electronic Circuitry for Timing and Delay Circuits	PCT/US98/12112	
Low-Energy Detonating Cord Accumulator and Method for Initiation of Explosive Charges	60/116,493	

<u>Title</u>	<u>Application No.</u>	<u>Patent No</u>
Accumulated Detonating Cord Charge, Method of Use	PCT/US00/01227	
Accumulated Detonating Cord Explosive Charge and Method of Making and Use of the Same	10/315,455	
Cast Explosives with Embedded Bodies	60/153,497	
Explosives with Embedded Bodies	PCT/US00/40877	
Rigid Explosive Device and Method of Use	60/151,558	
Rigid Reactive Cord and Method of Use and Manufacture	09/645,276	
Detonating Cord Having Controlled Velocity of Detonation and Methods of Making and Using the Same	60/206,877	
Detonating Cord and Methods of Making and Using the Same	09/863,795	
Detonating Cord and Methods of Making and Using the Same	PCT/US01/16642	
Electric Initiator Resistant to Actuation By Radio Frequency and Electrostatic Energies	06/441,755	4,517,895
Laminated Fuse and Manufacturing Process Therefor	596,449	4,607,573
Blasting Signal Transmission Tube Delay Unit	914,785	4,742,773
Blasting Signal Transmission Tube Connector	898,652	4,771,694
Non-Electric Signal Transmission Device Connection, Method and Apparatus Therefor	07/511,077	5,009,163
Delay Train Ignition Buffer	07/476,328	5,031,538
Ignition System and a Method for the Initiation Thereof	07/460,897	5,133,257
Low-Energy Blasting Initiation System, Method and Surface Connection Thereof	07/608,993	5,171,935
Digital Delay Detonator	730,275	5,173,569
Detonating Cord and Blasting Cap Connector Block Having a Resilient Free End Cord Latch	07/851,045	5,192,828



<u>Title</u>	<u>Application No.</u>	<u>Patent No</u>
Impulse Signal Delay Unit	07/949,466	5,377,592
Low Energy Blasting Initiation System, Method and Surface Connection Therefor	08/118,576	5,398,611
Shock Tube Assembly	08/212,200	5,413,046
Extended Range Digital Delay Detonator	07/994,676	5,435,248
Detonator Packaging System	08/096,905	5,494,152
Molded Article Having Integral Displaceable Member or Members and Method of Use	08/249,522	5,499,581
Alternate Signal Path Isolation Member and Non-Electric Detonator Cap Including the Same	08/327,204	5,501,151
Cushion Element for Detonators and the Like; Apparatus and Method for Assembly	08/376,063	5,522,318
Signal Transmission Fuse	08/380,839	5,597,973
Accessory Charges for Booster Explosive Devices	08/548,812	5,614,693
Programmable Electronic Timer Circuit	08/420,991	5,621,184
Universal Isolation Member and Non-Electric Detonator Cap Including the Same	08/606,224	5,631,440
Secure Connector for Blast Initiation Signal Transfer	08/576,004	5,659,149
Slider Member for Booster Explosive Charges	08/575,244	5,661,256
Connector Block for Blast Initiation Systems	08/549,160	5,703,319
Connector for Blast Initiation System	08/576,003	5,703,320
Method and Apparatus for Transfer of Initiation Signals	08/548,813	5,708,228
High Explosive Initiation System	08/738,173	5,714,712
Detonators Having Multiple-Line Input Leads	08/548,815	5,747,722

<u>Title</u>	<u>Application No.</u>	<u>Patent No</u>
Booster Explosive Devices and Combinations Thereof with Explosive Accessory Charges	08/548,814	5,780,764
Connector Block Having Detonator-Positioning Locking Means	08/548,590	5,792,975
Fissile Shock Tube and Method of Making the Same	08/678,106	5,827,994
Signal Transmission Tube Using Reclaim Material and Method of Manufacture	08/561,615	5,837,924
Detonator with Loosely Packed Ignition Charge and Method of Assembly	08/831,664	5,889,228
Electronic Circuitry for Timing and Delay Circuits	08/879,162	5,912,428
Hybrid Electronic Detonator Delay Circuit Assembly	08/762,262	5,929,368
Method of Manufacturing an Explosive Carrier Material and Articles Containing the Same	08/778,960	5,939,661
Shock-Resistant Electronic Circuit Assembly	08/742,296	6,079,332
Signal Transmission Fuse	08/920,516	6,170,398
Dual Capacitor Oscillator Circuit	09/303,531	6,268,775 B1
Shock-Resistant Electronic Circuit Assembly	09/455,548	6,311,621 B1
Method of Making a Signal Transmission Fuse	09/627,830	6,347,566 B1
Initiator with Loosely Packed Ignition Charge and Method of Assembly	09/402,868	6,408,759 B1
Explosive Charge and Method of Making and Use of the Same	09/488,225	6,508,176
Explosives with Embedded Bodies	09/659,243	6,508,177 B1

<u>Title</u>	<u>Application No</u>	<u>Patent No.</u>
Ultrasonic Joining of Plastic Powder-Coated Metal Substrates		
Packaging System for Coiled Materials		
To Be Supplied		
Method of Making Superfine Explosive		
Self-Testing Laser Initiation Device and Method		
Optical Beam splitter Assembly and Test Method	08/036,944	
Low Energy Blasting Initiation System, Method and Surface Connection Therefor	07/878,735	
Easy Drifter Demolition System		
Detonating Cord and Blasting Cap Connector Block	07/904,393	
Optical Fiber Having a Faceted Microlens and Method for Making the Same	08/132,128	
Method of Mounting and Holding a Coupling Fiber in Alignment with an Optical Energy Source	08/135,672	
Universal Isolation Member and Non-Electric Detonator Cap Including the Same	08/327,200	
Low Energy Detonating Cord Borehole Downline Unit		
Optical Coupling Package and Method of Making Same	08/135,669	
Isolation Member with Improved Static Discharge Barrier and Non-Electric Detonator Cap Including the Same	08/327,186	
Isolation Member with Improved Static Discharge Barrier and Non-Electric Detonator Cap Including the Same	08/605,652	
Isolation Member with Improved Signal Focus and Non-Electric Detonator Cap Including the Same		

<u>Title</u>	<u>Application No</u>	<u>Patent No.</u>
Initiation Signal Transmitting-and-Splitting Devices		
Signal Transmission Tube Assembly and Connector Therefor		
Display Fireworks Ignition Signal Transfer Device	08/286,547	
Ignition Signal Transfer Device	08/506,320	
Detonating Cord Jacketed with Compressible Material (Foam)		
Signal Transmission Lines with Non-Circular Cross Section		
Cushion Element for Detonators and the Like; Apparatus and Method for Assembly	07/954,878	
Improved Connector Block		
Shock-Activated Digital Delay Detonator		
Method of Manufacturing an Explosive Carrier Material and Articles Containing the Same	PCT/US99/1 1438	
Detonating Cord, Sheet or Shapes		
Shock Tube Powder		
Positioning Retainer for Connector Block		
Programmable Detonator and Detonating System		
Blast Initiation System		
Booster Connector Device		
Connector Block for Blast Initiation Signal Transfer		
Shock Tube Actuated Device (Dimple Motor)		
Self-Contained Percussion Output Device	PCT/US97/15642	
Shock Tube Initiated Delay Detonator Containing a Unidirectional Flap Valve		
In-Line Optical Cable Release Mechanism		

<u>Title</u>	<u>Application No.</u>	<u>Patent No.</u>
Laser-Initiated Explosive Compositions and Devices Including the Same	08/884,718	
Laser-Ignitable Ignition Composition and Initiation Devices and Assemblies Comprising the Same	PCT/US98/12583	
Thick Film Bridge Initiators and Devices Including the Same		
Improved System and Method for Packaging Detonating Cord for Transport	07/431,623	
Accumulated Detonating Cord Explosive Charge and Method of Making and Use of the Same		
Non-Electric Blasting Initiation Signal Control System, Method and Transmission Device Therefor	06/811,731	
Detonating Cord Transport System	06/692,896	4,586,602
Impeded Velocity Signal Transmission Line	07/044,039	4,838,165