

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT															
NATURE OF CONVEYANCE:	SECURITY AGREEMENT															
CONVEYING PARTY DATA																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> <tr> <td>Grant Prideco, Inc.</td> <td>05/12/2005</td> </tr> </table>		Name	Execution Date	Grant Prideco, Inc.	05/12/2005											
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Grant Prideco, Inc.	05/12/2005															
RECEIVING PARTY DATA																
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Wells Fargo Bank</td> </tr> <tr> <td>Street Address:</td> <td>1000 Louisiana St., 3rd Floor</td> </tr> <tr> <td>Internal Address:</td> <td>Mail Code MAC T5002-031</td> </tr> <tr> <td>City:</td> <td>Houston</td> </tr> <tr> <td>State/Country:</td> <td>TEXAS</td> </tr> <tr> <td>Postal Code:</td> <td>77002</td> </tr> </table>			Name:	Wells Fargo Bank	Street Address:	1000 Louisiana St., 3rd Floor	Internal Address:	Mail Code MAC T5002-031	City:	Houston	State/Country:	TEXAS	Postal Code:	77002		
Name:	Wells Fargo Bank															
Street Address:	1000 Louisiana St., 3rd Floor															
Internal Address:	Mail Code MAC T5002-031															
City:	Houston															
State/Country:	TEXAS															
Postal Code:	77002															
PROPERTY NUMBERS Total: 6																
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th style="width: 70%;">Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>10357611</td> </tr> <tr> <td>Patent Number:</td> <td>5562312</td> </tr> <tr> <td>Patent Number:</td> <td>5853199</td> </tr> <tr> <td>Patent Number:</td> <td>6305723</td> </tr> <tr> <td>Patent Number:</td> <td>6848724</td> </tr> <tr> <td>Patent Number:</td> <td>6896300</td> </tr> </tbody> </table>			Property Type	Number	Application Number:	10357611	Patent Number:	5562312	Patent Number:	5853199	Patent Number:	6305723	Patent Number:	6848724	Patent Number:	6896300
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CORRESPONDENCE DATA																
<p>Fax Number: (713)222-3291 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: (713) 221-3306</p> <p>Email: constance.rhebergen@bracewellgiuliani.com</p> <p>Correspondent Name: Constance Gall Rhebergen</p> <p>Address Line 1: P.O. Box 61389</p> <p>Address Line 4: Houston, TEXAS 77208-1389</p>																
NAME OF SUBMITTER:	Constance Gall Rhebergen															

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PATENT

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REEL: 016087 FRAME: 0610

Total Attachments: 13

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PATENT SECURITY AGREEMENT SUPPLEMENT

Dated as of May 12, 2005

WHEREAS, each entity listed on Schedule 1-A hereto (each a "Debtor" and, collectively, the "Debtors"), whose jurisdictions and types of organization and addresses are as set forth on Schedule 1-A hereto, owns the letters patent, and/or applications for letters patent, of the United States of America, indicated and more particularly described for such Debtor on Schedule 1-B hereto (the "Patents");

WHEREAS, Grant Prideco, Inc., a Delaware corporation (the "Parent") and certain subsidiaries of the Parent party thereto (the Parent and such subsidiaries collectively being the "Borrowers") have entered into a Credit Agreement dated as of May 12, 2005 (as amended, supplemented, or otherwise modified from time to time, the "Credit Agreement") with Wells Fargo Bank, National Association, in its capacity as administrative agent (in such capacity, the "Administrative Agent"), Bank of America, N.A., as syndication agent, and the lenders and agents from time to time party thereto.

WHEREAS, each Debtor, the Parent, and certain other subsidiaries of the Parent have entered into a Security Agreement (as amended, supplemented, or otherwise modified from time to time, the "Security Agreement") in favor of the Administrative Agent, pursuant to which each Debtor has granted to the Administrative Agent, for the benefit of the holders of the Secured Obligations, a security interest in all right, title, and interest of such Debtor in and to the Patents, together with all registrations and recordings thereof, including, without limitation, applications, registrations, and recordings in the United States Patent and Trademark Office or in any similar office or agency of the United States, any State thereof or any other country or any political subdivision thereof, all whether now or hereafter owned or licensable by such Debtor, and all reissues, continuations, continuations-in-part, term restorations or extensions thereof, all Patent Licenses (as defined in the Security Agreement), and all proceeds thereof, including, without limitation, any claims by such Debtor against third parties for infringement thereof for the full term of the Patents (the "Collateral"), to secure the prompt payment, performance and observance of the Secured Obligations (as defined in the Security Agreement);

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, each Debtor does hereby further confirm, and put on the public record, its grant to the Administrative Agent of a security interest in the Collateral to secure the prompt payment, performance and observance of the Secured Obligations.

Each Debtor does hereby further acknowledge and affirm that the rights and remedies of the Administrative Agent with respect to the grant of and security interest in the Collateral made hereby are more fully set forth in the Security Agreement, the terms and provisions of which are hereby incorporated herein by reference as if fully set forth herein.

The Administrative Agent's address is Wells Fargo Bank, National Association, Energy Services Group, Mail Code MAC T5002-031, 1000 Louisiana St., 3rd Floor, Houston, TX 77002, Attn: Alan Smith.

[Signature pages follow.]

IN WITNESS WHEREOF, each Debtor has duly executed or caused this Patent Supplement to the Security Agreement to be duly executed as of the date first set forth above.

GRANT PRIDECO, INC.

By: James M. Mitchell
Name: JAMES M. MITCHELL
Title: TREASURER

GRANT PRIDECO, L.P
by its general partner,
Grant Prideco Holding, LLC

By: James M. Mitchell
Name: JAMES M. MITCHELL
Title: TREASURER

REEDHYCALOG UTAH, LLC

By: James M. Mitchell
Name: JAMES M. MITCHELL
Title: TREASURER

XL SYSTEMS, L.P.
by its general partner,
Grant Prideco Holding, LLC

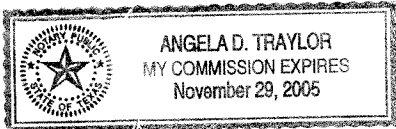
By: James M. Mitchell
Name: JAMES M. MITCHELL
Title: TREASURER

REEDHYCALOG, L.P.
by its general partner,
ReedHycalog, LLC

By: James M. Mitchell
Name: JAMES M. MITCHELL
Title: TREASURER

STATE OF TEXAS)
COUNTY OF HARRIS) ss.:

On this 13 day of MAY, 2005, before me personally appeared JAMES M. MITCHELL, to me known, who, being by me duly sworn, did depose and say that he/she resides at 7011 NORTHAMPTON WAY and that he/she is TREASURER of each Debtor, or of the general partner of such Debtor; and that he/she signed his/her name thereto in his/her capacity as an authorized officer of said Debtor or said general partner of said Debtor pursuant to such authority.



Angela D. Traylor
Notary Public

Schedule 1-A
to the Patent Security Agreement Supplement

DEBTORS

Debtor	Jurisdiction of Formation	Principal Place of Business	Type of Entity
Grant Prideco, Inc.	Delaware	400 N Sam Houston Pwy E, #900, Houston, TX 77060	Corporation
Grant Prideco, L.P.	Delaware	400 N Sam Houston Pwy E, #900, Houston, TX 77060	Limited Partnership
ReedHycalog, L.P.	Delaware	400 N Sam Houston Pwy E, #900, Houston, TX 77060	Limited Partnership
ReedHycalog Utah, LLC	Delaware	400 N Sam Houston Pwy E, #900, Houston, TX 77060	Limited Liability Company
XL Systems, L.P.	Texas	400 N Sam Houston Pwy E, #900, Houston, TX 77060	Limited Partnership

Schedule 1-B
to the Patent Security Agreement Supplement

PATENTS

Assignee	Title	Filed	Serial No	Patent No.	Issue Date
Atlantic Richfield Company / Grant Prideco L.P.	High Efficiency Drill Pipe	3/2/99	09/260,250	6244631	6/12/01
Grant Prideco Inc.	Discontinuous Plane Weld Apparatus & Method for Enhancing Fatigue etc.	7/5/94	08/270,992	5562312	10/8/96
Grant Prideco Inc.	External Refacing Benchmark Indicator	11/12/02	10/292,072		
Grant Prideco L.P.	Stress Relief Groove for Drill Pipe	12/3/92	07/985,832	5286069	2/15/94
Grant Prideco L.P.	Tubular Coupling With Ventable Seal	8/28/85	06/771137	4893844	1/16/90
Grant Prideco L.P.	Method of Internally and Externally Upsetting the End of a Metal Tube	12/3/91	07/801969	5184495	2/9/93
Grant Prideco L.P.	Threaded Connection for Enhanced Fatigue Resistance	5/2/97	08/850,735	5931511	8/3/99
Grant Prideco L.P.	Ultra High Torque Double Shoulder Tool Joint	5/2/97	08/850,658	5908212	6/1/99
Grant Prideco L.P.	Lightweight Drill Pipe	6/10/91	07/712529	5148876	9/22/92
Grant Prideco L.P.	Concentric, Insulated Tubular Conduits and Method of Assembly (Divisional)	7/23/01	09/912,053	6520732	2/18/03
Grant Prideco L.P.	Threaded Connection for Internally Clad Pipe (Divisional)	6/28/01	09/894,457	6863313	3/8/05
Grant Prideco L.P.	Method of Horizontal Drilling	4/29/91	07/692620	5165491	11/24/92
Grant Prideco L.P.	Tool Joint	4/18/91	07/687,438	5147996	9/15/92
Grant Prideco L.P.	Horizontal Drilling or Completion Method	11/5/90	07/610301	5101906	4/7/92
Grant Prideco L.P.	Casing Drilling Connector with Low Stress Flex Groove	11/3/00	09/706,204	6406070	6/18/02
Grant Prideco L.P.	Corrosion Seal for Threaded Connections	10/4/00	09/679,470	6811189	11/2/04
Grant Prideco L.P.	Drill Collar Box	9/29/00	09/676,578	6467818	10/22/02
Grant Prideco L.P.	System, Method and Apparatus for Deploying a Data Resource Within a Threaded Pipe Coupling	9/29/00	09/675,697	6516880	2/11/03
Grant Prideco L.P.	Buttress Thread Form	4/27/90	07/516138	5092635	3/3/92

Assignee	Title	Filed	Serial No	Patent No.	Issue Date
Grant Prideco L.P.	Thread Spacer	9/14/04	10/711,359		
Grant Prideco L.P.	Anti-Rotation Device for Mating Connectors and Methods of Using the Same	5/20/04	10/709,655		
Grant Prideco L.P.	Thread Rolling Tool	11/28/03	10/707,231		
Grant Prideco L.P.	Threaded Connectors for Axial Alignment of Tubular Components, and Method of Installing Pipe Sections Employing Such Connectors	11/28/03	10/707,228		
Grant Prideco L.P.	Oilfield Tubular Connection	2/16/90	07/480,804	5064224	11/12/91
Grant Prideco L.P.	Threaded Pipe Joint Having Improved Seal Ring Entrapment	1/25/90	07/470,116	5066052	11/19/91
Grant Prideco L.P.	Oilfield Tubular Connection	5/12/00	09/569,458	6447025	9/10/02
Grant Prideco L.P.	Threaded Connection With High Compressive Rating	4/28/00	09/560,854	6581980	6/24/03
Grant Prideco L.P.	Large Diameter Flush-Joint Pipe Handling System	11/5/03	10/605,910		
Grant Prideco L.P.	A Method of Establishing Stress Relieving Procedures For Minimizing Sulfide Stress Cracking in Cold Worked Metals	10/21/03	10/605,694		
Grant Prideco L.P.	Tubular Connector	9/12/03	10/605,183		
Grant Prideco L.P.	Tool Joint and Method of Hardfacing Same	9/15/89	07/408,074	5010225	4/23/91
Grant Prideco L.P.	Concentric, Insulated Tubular Conduits and Method of Assembly	1/12/00	09/481,619	6325278	12/4/01
Grant Prideco L.P.	Control Line Coupling and Tubular String-Control Line Assembly Employing Same	11/9/99	09/436,611	6367845	4/9/02
Grant Prideco L.P.	Oil Field Tubular Connection	3/8/89	07/320,718	4946201	8/7/90
Grant Prideco L.P.	Threaded Pipe Joint Having Improved Seal Ring Entrapment	3/8/89	07/320,476	4944538	7/31/90
Grant Prideco L.P.	Multi-Taper and Multi-Pitch Diameter API Eight Round Thread Coupling	6/10/03	10/457,773		
Grant Prideco L.P.	Threaded and Coupled	7/21/99	09/358,205	6609735	8/26/03

Assignee	Title	Filed	Serial No	Patent No.	Issue Date
	Connection for Improved Fatigue Resistance				
Grant Prideco L.P.	Insulated Tubular Assembly	3/11/03	10/385,361		
Grant Prideco L.P.	Drill Pipe with Improved Connectors	7/21/94	08/278,419	5492375	2/20/96
Grant Prideco L.P.	Helical Stress Relief Groove Apparatus and Method for Subterranean Well Drill Pipe Assemblies	7/5/94	08/270,247	5535837	7/16/96
Grant Prideco L.P.	Pressure Relieved Thread Connection	1/2/03	10/335,823		
Grant Prideco L.P.	Fatigue Resistant Drill Pipe	4/27/99	09/301,388	RE37167	5/8/01
Grant Prideco L.P.	System, Method and Apparatus for Deploying a Data Resource Within a Threaded Pipe Coupling	12/9/02	10/314,514	6811187	11/2/04
Grant Prideco L.P.	Method of Fabricating Threaded Connection for Pipes	7/14/88	07/218,839	4838068	6/13/89
Grant Prideco L.P.	Threaded Connection For Internally Clad Pipe	2/24/99	09/256,885	6273474	8/14/01
Grant Prideco L.P.	Threaded Pipe Connection	10/31/02	10/284,632		
Grant Prideco L.P.	Method and Apparatus for Measuring the Length (MIU) of the Internal Taper of an Internally Upset Drill Pipe Tube	3/30/94	08/220,281	5479721	1/2/96
Grant Prideco L.P.	Double Shoulder Oilfield Tubular Connection	3/6/03	10/248,971	6712402	3/30/04
Grant Prideco L.P.	Stress Relief Groove for Drill Pipe	1/13/94	08/182,211	5358285	10/25/94
Grant Prideco L.P.	Apparatus and Method for Enhancing Fatigue Properties of Subterranean Well Drill Pipe Immediate the Area of Securement to a Tool Joint	11/19/93	08/155,011	5361846	11/8/94
Grant Prideco L.P.	Cutting elements for rotary drill bits	12/12/85	07/120718	4928777	5/29/90
Grant Prideco L.P.	Shoulder Dressing Apparatus	9/17/93	08/122157	5433130	7/18/95
Grant Prideco L.P.	Tool Joint Stress Relief Groove	5/20/93	08/064858	5355968	10/18/94
Grant Prideco L.P.	Heavy Weight Drill Pipe	5/1/98	09/071,253	6012744	1/11/00
Grant Prideco L.P.	Threaded Connection For Internally Clad Pipe	2/25/98	09/030,459	6042153	3/28/00
Grant Prideco L.P.	Methods and Connections	1/12/05	11/032,972		

Assignee	Title	Filed	Serial No	Patent No.	Issue Date
	for Coupled Pipe				
Grant Prideco L.P.	Pressure Relieved Thread Connection	1/3/05	11/029,055		
Grant Prideco L.P.	Liner Connection	6/20/86	876712	4707001	11/17/87
Grant Prideco LP	Welding Alignment Device, and Methods of Using Same	10/19/04	10/904,013		
Grant Prideco, Inc.	Fatigue Resistant Drill Pipe	9/18/95	08/529,517	5853199	12/29/98
Grant Prideco, Inc.	Concentric, Insulated Tubular Conduits and Method of Assembly (Divisional)	2/4/03	10/357,611		
Grant Prideco, Inc.	Thread Design for Uniform Distribution of Makeup Forces	8/12/02	10/217,129	6848724	2/1/05
Grant Prideco, Inc. and RTI International Metals	Tool Joint and Drill Pipe Made Therefrom	10/27/98	09/179,512	6305723	10/23/01
Reed Hycalog L.P.	Hardmetal Facing for Earth Boring Drill Bit	7/31/97	08/903913	5988302	11/23/99
Reed Hycalog L.P.	Bi-Center Bit Adapted to Drill Casing Shoe	10/2/01	09/969,444	6629476	10/7/03
Reed Hycalog L.P.	Thrust Face Lubrication System for a Rolling Cutter Drill Bit (Continuation)	1/10/97	08/781217	5931241	8/3/99
Reed Hycalog LP	Drill Bit Having Offset Roller Cutters and Improved Nozzles	2/29/88	07/162289	4848476	7/18/89
Reed Hycalog LP	Rolling Cutter Drill Bits	10/12/93	08/136442	5372210	12/13/94
ReedHycalog L.P.	Seal assembly for rotary drill bits	4/25/88	/186,022	4838365	6/13/89
ReedHycalog L.P.	Mounting means for cutting elements in drag type rotary drill bit	2/18/86	06/830399	4682663	7/28/87
ReedHycalog L.P.	Hardened bearing surface and method of forming same	9/18/85	06/777279	4618269	10/21/86
ReedHycalog L.P.	Seal assembly for drill bits	9/16/85	06/776452	4623028	11/18/86
ReedHycalog L.P.	Rolling Cutter Drill Bits (Continuation)	11/17/97	08/971,504	6354740	3/12/02
ReedHycalog L.P.	Rock Bit Hardmetal Overlay and Process of Manufacture	10/14/97	08/950286	5967248	10/19/99
ReedHycalog L.P.	Rock Bit Cutter Retainer with Differentially Pitched	10/1/97	08/942128	5853245	12/29/98

Assignee	Title	Filed	Serial No	Patent No.	Issue Date
	Threads				
ReedHycalog L.P.	Accelerometer Caliper While Drilling	4/24/01	09/841,659	6467341	10/22/02
ReedHycalog L.P.	Fabrication Process for High Density Powder Composite Hardfacing Rod	2/13/01	09/782,341	6361739	3/26/02
ReedHycalog L.P.	Different Stiffness Energizers for MF Seals	7/24/96	08/685851	5875861	3/2/99
ReedHycalog L.P.	Hardfacing Material for Rolling Cutter Drill Bits	7/1/96	08/673978	5740872	4/21/98
ReedHycalog L.P.	Flow Channels for Tooth Type Rolling Cutter Drill Bits	4/5/96	08/627171	5676214	10/14/97
ReedHycalog L.P.	Rolling Cutter Drill Bits (Continuation)	10/31/00	09/702,507	6416224	7/9/02
ReedHycalog L.P.	Fabrication Process for Powder Composite Rod	11/9/01	09/683,030	6440358	8/27/02
ReedHycalog L.P.	Rock Bit Face Seal Having Lubrication Gap	11/8/01	09/683,022	6427790	8/6/02
ReedHycalog L.P.	Non Circular Gauge Reaming Row Inserts	8/24/00	09/645,235	6394199	5/28/02
ReedHycalog L.P.	Removable Equipment Housing for Downhole Measurements	9/28/04	10/711,608		
ReedHycalog L.P.	Apparatus for Weight on Bit Measurements, and Methods of Using Same	9/27/04	10/711,589		
ReedHycalog L.P.	Self-Aligning Insert for Drill Bits	5/20/04	10/709,653		
ReedHycalog L.P.	Equipment Housing for Downhole Measurements	5/18/04	10/709,625		
ReedHycalog L.P.	On-Bit, Analog Multiplexer for Transmission of Multi-Channel Drilling Information	4/14/04	10/709,108		
ReedHycalog L.P.	Hardmetal Facing for Rolling Cutter Drill Bits	11/17/95	08/559959	5653299	8/5/97
ReedHycalog L.P.	Drill bit with dual reaming rows	10/2/95	08/540685	5671817	9/30/97
ReedHycalog L.P.	Thrust Face Lubrication System for a Rolling Cutter Drill Bit	8/29/95	08/520431	5628375	5/13/97
ReedHycalog L.P.	Rolling Cutter Drill Bits	7/28/95	08/506993	5725313	3/10/98
ReedHycalog L.P.	Rotary drill bit for use in drilling holes in subsurface earth formations	11/8/89	07/433689	4991670	2/12/91

Assignee	Title	Filed	Serial No	Patent No.	Issue Date
ReedHycalog L.P.	Tooth Type Drill Bit with Secondary Cutting Elements and Stress Reducing Tooth Geometry	4/12/00	09/547,525	6347676	2/19/02
ReedHycalog L.P.	Lip Seal for Roller Cone Drill Bit	9/12/03	10/605,177		
ReedHycalog L.P.	Volume Reduction Mandrel for Use in Pneumatic Isostatic Forging	1/27/00	09/492,731	6338621	1/15/02
ReedHycalog L.P.	Single Energizer Face Seal for Rock Bits with Floating Journal Bearings	12/2/99	09/452,774	6247545	6/19/01
ReedHycalog L.P.	Drag-Type Rotary Drill Bit	11/22/99	09/447,059	6371226	4/16/02
ReedHycalog L.P.	Drag-Type Rotary Drill Bit	11/22/99	09/444,072	6193000	2/27/01
ReedHycalog L.P.	Cutting elements for roller cutter drill bits	4/5/89	07/333576	4940099	7/10/90
ReedHycalog L.P.	Rock Bit Face Seal Having Anti-Rotation Pins	10/12/99	09/417,041	6176330	1/23/01
ReedHycalog L.P.	Means for retaining roller cutters on rotary drill bit	2/21/89	07/312459	4911255	3/27/90
ReedHycalog L.P.	Rock Bit Lubricant Relief Valve	8/20/99	09/378091	6138778	10/31/00
ReedHycalog L.P.	Rock Bit Hardmetal Overlay & Process of Manufacture	7/26/99	09/360751	6045750	4/4/00
ReedHycalog L.P.	Drag drill bit having improved arrangement of cutting elements	11/7/88	07/270431	4848489	7/18/89
ReedHycalog L.P.	Method and Apparatus for Loading Lubricant Into Earth Boring Bits	6/4/99	09/326,236	6170611	1/9/01
ReedHycalog L.P.	Roller cutter drill bit and method of forming	7/13/88	07/218642	4887493	12/19/89
ReedHycalog L.P.	Fixed Cutter Drill Bits With Thin, Integrally Formed Wear and Erosion Surfaces	3/9/99	09/265266	6135218	10/24/00
ReedHycalog L.P.	Rolling Cutter Drill Bit with Stabilized Insert Holes and Method for Making a Rolling Cutter Drill Bit with Stabilized Insert Holes	1/22/99	09/234854	6095264	8/1/00
ReedHycalog L.P.	Face Seal Having Strain Induced Face Geometry	11/19/98	09/196478	6109376	8/29/00
ReedHycalog L.P.	Pneumatic Isostatic Forging of Sintered Compacts	11/11/98	09/190804	6060016	5/9/00
ReedHycalog L.P.	Cutting structures for steel	1/25/88	07/148072	4919220	4/24/90

Assignee	Title	Filed	Serial No	Patent No.	Issue Date
	bodied rotary drill bits				
ReedHycalog L.P.	Wear Indicator for Rotary Drilling Tools	10/30/98	09/183,504	6167833	1/2/01
ReedHycalog L.P.	Rotary Drill Bits	11/9/87	07/118604	4823892	4/25/89
ReedHycalog L.P.	Rotary drill bit having improved mounting means for multiple cutting elements	8/13/87	07/084892	4907662	3/13/90
ReedHycalog L.P.	Method of Measuring Stick Slip and System for Performing Same	2/17/05	60/653,889		
ReedHycalog L.P.	Mounting means for cutting elements in drag type rotary drill bit	6/12/87	07/061413	4830123	5/16/89
ReedHycalog L.P. and Corporacion POK S.A. de C.V.	Fluid-Soluble Pattern Material for Investment Casting Process, and Methods for Using Same	2/10/05	10/906,232		
ReedHycalog LP	Methods and Related Equipment for Rotary Drilling	4/15/97	08/909432	5950742	9/14/99
ReedHycalog LP	Aluminide Coated Bearing Elements for Roller Cutter Drill Bits	7/5/91	07/726024	5161898	11/18/92
ReedHycalog LP	Directional Drill Bit	12/23/96	08/771000	5839525	11/24/98
ReedHycalog LP	Pressure compensator for drill bit lubrication system	1/22/91	07/643486	5072795	12/17/91
ReedHycalog LP	Composite Structure Having a Non-Planar Interface and Method of Making Same	4/26/05	10/908,040		
ReedHycalog LP	Hydraulic action for rotary drill bits	11/14/90	07/613241	5096005	3/17/92
ReedHycalog LP	Rotary drill bits and methods of designing such drill bits	6/6/96	08/659502	5816346	10/6/98
ReedHycalog LP	Seal assembly for roller cutter drill bit having a pressure balanced lubrication system	8/13/90	07/566129	5040624	8/20/91
ReedHycalog LP	Nozzle means for rotary drill bits	3/30/90	07/502046	5029656	7/9/91
ReedHycalog LP	Means for mounting a roller cutter on a drill bit	3/13/90	07/492,789	4991671	2/12/91
ReedHycalog LP	Method of making a threaded retainer ring for a roller cutter on a drill bit	2/5/90	07/475285	5012701	5/7/91
ReedHycalog LP	Method of making lug journal for roller cutter drill bits	11/16/89	07/437180	4982496	1/8/91

Assignee	Title	Filed	Serial No	Patent No.	Issue Date
ReedHycalog LP	Case hardened roller cutter for a rotary drill bit and method of making	10/13/89	07/420872	4969378	11/13/90
ReedHycalog LP	Drill bit having improved hydraulic action for directing drilling fluid	7/17/89	07/381040	4989680	2/5/91
ReedHycalog LP	Sub-reamer for Bi-Center Type Tools	11/21/02	10/301,049		
ReedHycalog LP	Cutting elements for rotary drill bits	12/7/93	08/163344	5469927	11/28/95
ReedHycalog LP	Rolling Cutter Drill Bits	8/24/93	08/111373	5465800	11/14/95
ReedHycalog LP	Threaded Ring Retention Mechanism	8/24/93	08/110854	5383525	1/24/95
ReedHycalog Utah, LLC	Reduced Mass Unitary Frame for Ultra High-Pressure High-Temperature Press Apparatus	10/27/00	09/703,983	6336802	1/8/02
ReedHycalog Utah, LLC	Frictional Vibration Damper for Downhole Tools	6/26/00	09/603,984	6394198	5/28/02
ReedHycalog Utah, LLC	Container Assembly for HPHT Processing	9/3/03	10/654,512		
ReedHycalog Utah, LLC	Superhard Drill Bit Heel, Gage and Cutting Elements with Reinforced Periphery	3/30/00	09/537,551	6330924	12/18/01
ReedHycalog Utah, LLC	Metallized Graphite Heater for a High-Pressure High-Temperature Reaction Vessel	12/28/99	09/473,147	6124573	9/26/00
ReedHycalog Utah, LLC	Carbide/Metal Composite Material and a Process Therefor	6/11/92	897,311	5304342	4/19/94
ReedHycalog Utah, LLC.	Superhard Cutting Element Utilizing Tough Reinforcement Posts	3/17/98	09/040,658	6029760	2/29/00
ReedHycalog, L.P.	Hydraulic Optimization of Drilling Fluids in Borehole Drilling	8/12/03	10/604,714		
ReedHycalog, LP	Bi-Center bit with Oppositely Disposed Cutting Surfaces	10/21/97	08/955,147	5992548	11/30/99
ReedHycalog, LP	Re-Settable Locking Mechanism for Downhole Tools	10/21/04	10/971,865		
ReedHycalog, LP	Stabilizing Drill Bit	5/31/96	08/655,988	5803196	9/8/98
ReedHycalog, LP	Failure Indicator for Rolling Cutter Drill Bit	7/30/01	09/682,165	6484824	11/26/02
ReedHycalog, LP	Expandable Eccentric	11/3/03	10/701,232		

Assignee	Title	Filed	Serial No	Patent No.	Issue Date
	Reamer and Method of Use in Drilling				
ReedHycalog, LP	Improved Bi-Center Bit and Method for Enhancing Stability	8/15/95	08/515,536	5678644	10/21/97
ReedHycalog, LP	Cutting Element with Stress Reduction	9/7/99	09/391,033	6315067	11/13/01
ReedHycalog, LP	Two Stage Drill Bit	5/27/99	09/321,362	6412579	7/2/02
ReedHycalog, LP	Cutting Element with Stress Reduction	4/16/98	09/129,179	6026919	2/22/00
ReedHycalog, LP	Reduced Erosion Nozzle System and Method for the Use of Drill Bits to Reduce Erosion	4/2/98	09/057,714	6142248	11/7/00
ReedHycalog, LP	Cutting Element	2/9/98	09/021,012	6068072	5/30/00
ReedHycalog, LP.	Cutting Element with Stress Reduction	5/31/00	09/583,488	6401845	6/11/02
ReedHycalog, LP.	Bi-Center Bit Adapted to Drill Casing Shoe	9/8/99	09/392,043	6340064	1/22/02
ReedHycalog, LP.	Stabilizing Drill Bit with Improved Cutting Elements	9/8/98	09/149,196	5979577	11/9/99
ReedHycalog, LP.	Coring Tool	1/27/98	09/014,116	6009960	1/4/00
ReedHycalog, L.P.	Apparatus for Weight on Bit Measurements, and Methods of Using Same	10/15/03	10/605,627	6802215	10/12/04
XL Systems, L.P.	Releasable Connector	6/28/90	07/546,020	5026200	6/25/91
XL Systems, L.P.	Driveable Threaded Tubular Connection	3/23/87	029687	4822081	4/18/89