

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	RELEASE BY SECURED PARTY

CONVEYING PARTY DATA

Name	Execution Date
JPMorgan Chase Bank, N.A.	07/08/2011

RECEIVING PARTY DATA

Name:	Bucyrus International, Inc.
Street Address:	1100 Milwaukee Avenue
Internal Address:	P.O. Box 500
City:	South Milwaukee
State/Country:	WISCONSIN
Postal Code:	53202-5306

PROPERTY NUMBERS Total: 31

Property Type	Number
Application Number:	61098437
Application Number:	29342978
Application Number:	29342980
Application Number:	12553729
Application Number:	12557119
Application Number:	29342981
Patent Number:	6996979
Application Number:	10537772
Application Number:	12299406
Patent Number:	4690573
Patent Number:	4793421
Patent Number:	4944102
Patent Number:	5058753
Patent Number:	5078285

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Patent Number:	5145075
Patent Number:	5205678
Patent Number:	5307571
Patent Number:	5927408
Patent Number:	5931231
Patent Number:	5931238
Patent Number:	5956915
Patent Number:	6047775
Patent Number:	6168542
Patent Number:	6317957
Patent Number:	6467202
Patent Number:	6591521
Patent Number:	6752282
Patent Number:	7024805
Patent Number:	7096610
Application Number:	10765373
Patent Number:	7174826

CORRESPONDENCE DATA

Fax Number: (414)297-4900
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
Phone: 414-271-2400
Email: ptomailmilwaukee@foley.com
Correspondent Name: Eric M. Schmalz
Address Line 1: Foley & Lardner LLP
Address Line 2: 777 E. Wisconsin Avenue
Address Line 4: Milwaukee, WISCONSIN 53202-5306

NAME OF SUBMITTER:

Eric M. Schmalz

Total Attachments: 22

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RELEASE OF SECURITY INTEREST

This **RELEASE OF SECURITY INTEREST** (the "Release"), effective as of the date indicated below, is made by **JPMORGAN CHASE BANK, N.A.**, a national banking association organized and existing under the laws of the United States of America, as administrative agent under the Credit Agreement (as defined below) ("Releasor"), in favor of **BUCYRUS INTERNATIONAL, INC.** and **BUCYRUS MINING EQUIPMENT, INC.**, Delaware corporations, and **BUCYRUS AMERICA, INC.**, a Pennsylvania corporation (collectively, "Releasee"), with respect to all intellectual property assets identified in the Guarantee and Collateral Agreement and IP Security Agreements ("Releasee's Intellectual Property"), including: the copyrights of Releasee and registrations therefor, including those listed in Schedule A to this Release; the trademarks of Releasee and applications and registrations therefor, including those listed in Schedule B to this Release; and the patent applications and patents of Releasee, including those listed in Schedule C to this Release.

WHEREAS, **BUCYRUS INTERNATIONAL, INC.** (the "Borrower") entered into that certain Amended and Restated Credit Agreement, dated as of May 25, 2007 (as amended, supplemented, replaced or otherwise modified from time to time, the "Credit Agreement"), with Releasor, as administrative agent (along with other parties);

WHEREAS, pursuant to the terms of the Credit Agreement, the Borrower (and other grantors party thereto) executed and delivered that certain Guarantee and Collateral Agreement, dated as of May 4, 2007, in favor of the predecessor in interest to Releasor (as amended, supplemented, replaced or otherwise modified from time to time, the "Guarantee and Collateral Agreement");

WHEREAS, under the terms of that certain Assumption Agreement, dated as of June 29, 2007, **BUCYRUS AMERICA, INC.** (f/k/a DBT America, Inc.) agreed to become a party to the Guarantee and Collateral Agreement;

WHEREAS, under the terms of that certain Assumption Agreement, dated as of February 17, 2010, **BUCYRUS MINING EQUIPMENT, INC.** agreed to become a party to the Guarantee and Collateral Agreement;

WHEREAS, under the terms of the Guarantee and Collateral Agreement, Releasee has granted a security interest in certain Intellectual Property and After-Acquired Intellectual Property (as defined in the Guarantee and Collateral Agreement) of Releasee, to Releasor, as administrative agent for the ratable benefit of the secured parties;

WHEREAS, pursuant to the Guarantee and Collateral Agreement, Releasee executed and delivered the intellectual property security agreements listed below (collectively, the "IP Security Agreements");

- * Intellectual Property Security Agreement, dated as of May 4, 2007, in favor of Releasor's predecessor in interest, which was recorded with the U.S. Patent and Trademark Office on May 8, 2007, at Trademark Reel/Frame No. 3537/0693 and Patent Reel/Frame No. 019260/0457, and with the U.S. Copyright Office on May 24, 2007 under document number V3552D858;

- * Intellectual Property Security Agreement, dated as of June 29, 2007, in favor of Releasor's predecessor in interest, which was recorded with the U.S. Patent and Trademark Office on July 11, 2007, at Trademark Reel/Frame No. 3578/0001 and Patent Reel/Frame No. 019541/0048;
- * After-Acquired Intellectual Property Security Agreement (Second Supplemental Filing), dated as of February 19, 2010, in favor of Releasor, which was recorded with the U.S. Patent and Trademark Office on March 9, 2010, at Trademark Reel/Frame No. 4164/0044; and
- * After-Acquired Intellectual Property Security Agreement (Third Supplemental Filing), dated as of February 19, 2010, in favor of Releasor, which was recorded with the U.S. Patent and Trademark Office on March 9, 2010, at Trademark Reel/Frame No. 4164/0075 and Patent Reel/Frame No. 024045/0785.

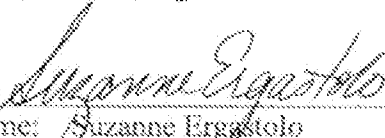
WHEREAS, Releasee has requested that Releasor release and discharge its security interest with respect to Releasee's Intellectual Property, which was granted to Releasor pursuant to the Guarantee and Collateral Agreement and IP Security Agreements.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Releasor, on behalf of the secured parties, hereby releases and discharges fully its security interest over Releasee's Intellectual Property.

Releasor will cooperate with Releasee, including performance of any actions, and the execution and delivery of any documents necessary or appropriate to give effect to the intent and terms of this Release and allow Releasee to effectively record it with any appropriate government offices of the United States of America and foreign countries and jurisdictions.

IN WITNESS WHEREOF, Releasor has caused this Release to be duly executed by its officer thereunto duly authorized, as of the 8th day of ~~June~~ JULY, 2011.

JPMORGAN CHASE BANK, N.A., as
Administrative Agent

By: 
Name: Suzanne Ergastolo
Title: Vice President

SCHEDULE A

COPYRIGHTS

<u>Title</u>	<u>Filing Date/Issued Date</u>	<u>Application/ Registration No.</u>
Design of Base Structure for Large Walking Draglines	June 24, 1996	TX 4-369-690
Remote Knowledge Network	May 1, 2000	TX 5-161-501

SCHEDULE B**TRADEMARKS**

<u>Mark</u>	<u>Country</u>	<u>Filing Date/Registration Date</u>	<u>Application/ Registration No.</u>
BUCYRUS AND DEVICE	United States	08/19/97	2,089,037
BUCYRUS AND DEVICE	Argentina	12/29/97	1,654,049
BUCYRUS AND DEVICE	Australia	9/26/96	718446
BUCYRUS AND DEVICE	Brazil	06/19/01	819656836
BUCYRUS AND DEVICE	Chile	01/09/98	500,920
BUCYRUS AND DEVICE	China	12/07/97	1133027
BUCYRUS AND DEVICE	Colombia	03/29/02	253488
BUCYRUS AND DEVICE	India	09/27/96	743204
BUCYRUS AND DEVICE	Japan	04/17/98	4136427
BUCYRUS AND DEVICE	Mexico	02/25/97	542139
BUCYRUS AND DEVICE	Morocco	09/30/96	60765
BUCYRUS AND DEVICE	Peru	03/24/97	034427
BUCYRUS AND DEVICE	South Africa	09/30/96	13819/96
BUCYRUS AND DEVICE	Sweden	04/11/97	322,957
BUCYRUS AND DEVICE	Turkey	11/26/96	177398
BUCYRUS AND DEVICE	United Kingdom	09/23/96	2110781
BUCYRUS INTERNATIONAL, INC.	United States	03/31/98	2,148,250

BUCYRUS	United States	09/02/97	2,092,900
MARC	United States	05/13/03	2,713,909
MARC	Argentina	05/10/99	1,735,412
CONTEL	United States	6/20/06	3,107,959
SWINGBOSS	United States	07/23/02	2,598,370
HOISTBOSS	United States	07/30/02	2,601,329
B --- E	United States	09/29/64	777,785
BUCYRUS	United States	09/01/25	202,679
BUCYRUS	United States	03/08/66	805,118
BUCYRUS	Australia	01/30/18	22587
BUCYRUS	Canada	07/09/13	18,572
BUCYRUS	India	06/18/93	229,594
BUCYRUS	South Africa	01/13/98	472671
BUCYRUS	Sweden	11/13/70	133276
BUCYRUS	Venezuela	06/12/98	19411
BUCYRUS-ERIE w/ interlocking CR	United States	09/23/47	432,944
BUCYRUS-ERIE	Australia	08/16/44	82024
BUCYRUS-ERIE w/ interlocking CR	Chile	06/13/00	570,151
BUCYRUS-ERIE w/ interlocking CR	Egypt	04/24/99	19,755
BUCYRUS-ERIE w/ interlocking CR	India	09/26/96	125,246
BUCYRUS-ERIE w/ interlocking CR	Morocco	08/06/92	49269

BUCYRUS-ERIE w/ interlocking CR	Brazil	12/31/91	002653320
BUCYRUS-ERIE w/ interlocking CR	Canada	10/23/28	45007
BUCYRUS & Design	Canada	08/20/99	514909
RAPIER	India	04/10/01	1002463
RAPIER	Jordan	06/26/01	62892
MARION	Turkey	08/07/98	98/010843
PEAK	United States	6/7/06	78/902,993

Mark	Country	Filing Date/Registration Date	Application/ Registration No.
EZEE-LOC	United States	08/10/2002	2,632,906
FULL DIMENSION	United States	12/08/81	1,180,880
HELMATIC	South Africa	04/06/76	76/1763
HELIMINER	South Africa	04/08/76	76/1764
LA Logo	Australia	11/27/97	719505
LONG-AIRDOX	United States	12/15/81	1,181,835
LONG-AIRDOX	Australia	11/27/97	719504
LO-ROPE	United States	09/02/58	666,579
PIGGYBACK	United States	08/07/51	546,367
RAMCAR	United States	01/24/67	822,733
RAMCAR	South Africa	06/04/76	76/1765
UN-A-HAULER	United States	11/22/83	1,258,487
UNATRAC and Design	United States	02/03/70	885,406
VERSATRAC	United States	02/26/85	1,321,772
IMPACT-7	Great Britain	12/29/93	B1478091
HOY Monogram	Benelux	08/06/71	56052
EXALON	United States	08/06/2004	76477871
IDLER PAL	United States	10/29/2003	2,850,348

Mark	Country	Filing Date/Registration Date	Application/ Registration No.
LATCHFREE	U.S. Federal	05-JAN-2010	3733443
CONTEL	Australia	06-SEP-2004	1019183
BUCYRUS	China	14-MAR-2010	6418926
BUCYRUS	China	14-MAR-2010	6418927
BUCYRUS	China	21-NOV-2007	6391929
BUCYRUS	China	21-NOV-2007	6391928
BUCYRUS	China	14-NOV-2009	5962916
CONTEL	China	28-FEB-2010	5962882
JEFFREY	United States	29-DEC-1992	1743023

<u>Trademark</u>	<u>Country</u>	<u>Application No. Registration No.</u>
LECTRA HAUL	United States	709,888
UNIT RIG	United States	926,117
HYDRA-TRAC	United States	1,153,657
UNIT RIG and Design	United States	1,216,423
MINE-KING	United States	2,786,163
Circular Arrows Design	United States	2,835,960
REEDRILL	United States	2,837,828
DART (Stylized) I	Italy	Reg: 401574
HALCO	Australia	Reg: 171633
HALCO	Australia	Reg: 171634
LECTRA HAUL	Papua New Guinea	Reg: A56279
LECTRA HAUL	Australia	Reg: A325408
LECTRA HAUL	Benelux	Reg: 477259
LECTRA HAUL	Brazil	Reg: 817796470
LECTRA HAUL	Canada	Reg: 447102
LECTRA HAUL	Chile	Reg: 578670
LECTRA HAUL	Greece	Reg: 97387
LECTRA HAUL	Mexico	Reg: 924217
LECTRA HAUL	Peru	Reg: 14170
LECTRA HAUL	Russia	Reg: 106633
LECTRA HAUL	Spain	Reg: M1540669
LECTRA HAUL	Tangier	Reg: 7374
LECTRA HAUL	United Kingdom	Reg: 1408239
LECTRA HAUL	Venezuela	Reg: 155820F
LECTRA HAUL	Congo	Reg: 2138/90

LECTRA HAUL	Morocco	Reg: 44241
LECTRA HAUL	Philippines	Reg: 54256
LECTRA HAUL	Zambia	Reg: 339/89
UNIT RIG and Design	Turkey	Reg: 92996
UNIT RIG and Design	China (Taiwan)	Reg: 01265550
UNIT RIG and Design	Greece	Reg: 82682
UNIT RIG and Design	South Africa	Reg: 86/2800
UNIT RIG and Design	Sweden	Reg: 205622
UNIT RIG and Design	Australia	Reg: 444659
UNIT RIG and Design	Brazil	Reg: 816092656
UNIT RIG and Design	Canada	Reg: TMA331243
UNIT RIG and Design	Chile	Reg: 769.825
UNIT RIG and Design	China	Reg: 5199482
UNIT RIG and Design	China	App: 5199401
UNIT RIG and Design	Colombia	Reg: 126827
UNIT RIG and Design	Congo	Reg: 609/86
UNIT RIG and Design	Hong Kong	Reg: 300623123
UNIT RIG and Design	India	Reg: 454021
UNIT RIG and Design	Liberia	Reg: 00126/2001
UNIT RIG and Design	Morocco	Reg: R37453
UNIT RIG and Design	Norway	Reg: 129961
UNIT RIG and Design	Peru	Reg: 65224
UNIT RIG and Design	Philippines	Reg: 4-1995-107007
UNIT RIG and Design	Russia	Reg: 159757
UNIT RIG and Design	Serbia-Montenegro	Reg: 44417
UNIT RIG and Design	United Kingdom	Reg: 1266190
UNIT RIG and Design	Venezuela	Reg: 136470-M
UNIT RIG and Design	Zambia	Reg: 405/95
UNIT RIG and Design	Spain	Reg: M1147324

SCHEDULE C

PATENTS

Title	Filing Date/Issued Date	Application/ Registration No.
Adjuster for Thrust Washer Wear	September 1, 1987	4,690,573
Programmed Automatic Drill Control	December 27, 1988	4,793,421
High Production System Bucket	July 31, 1990	4,944,102
Dragline Rotating Frame Structure	October 22, 1991	5,058,753
Dragline Modular Swing Drive Unit	January 7, 1992	5,078,285
Lattice Structure Boom Point	September 8, 1992	5,145,075
Tool Cutter Holder	April 27, 1993	5,205,678
High Production System Bucket	May 3, 1994	5,307,571
Head Brake Release with Memory	July 27, 1999	5,927,408
Casing Toggle Mechanism	August 3, 1999	5,931,231
Apparatus for Storing and Handling Drill Pipe	August 3, 1999	5,931,238
Tubular Drill Mast	September 28, 1999	5,956,915
Wrench Mechanism	April 11, 2000	6,047,775
Crowd Rope Take-Up System for Mining Shovels	January 2, 2001	6,168,542
Method for Fabricating an Excavator Base	November 20, 2001	6,317,957
Dynamically Active Dipper Door Mechanism	June 29, 2000	6,467,202
Dipper Door and Dipper Door Assembly for Electric Mining Shovel	July 15, 2003	6,591,521
Bolt-On Swing Girders for Electric Mining Shovel	June 23, 2004	6,752,282
Dragline Excavator Machine with Direct Drive Hoist and Dragline Drums	April 11, 2006	7,024,805

Dipper Assembly including a Closure Mechanism	August 29, 2006	7,896,610
Method and Apparatus for Case Hardening a Piece	Application filed January 27, 2004	Application No. 10/765,373
Hydraulic Crowd System for an Electric Mining Shovel	February 13, 2007	7,174,826

Title	Filing Date/Issued Date	Application/ Registration No.
Articulated Vehicle With Hinged Joint	I.D.: January 2, 1990	4,890,684 (U.S.A.)
Articulated Vehicle With Hinged Joint	I.D.: April 15, 1992	2217667 (Great Britain)
Vehicle With Lateral Moving Lift	I.D.: September 3, 1992	5,044,858 (U.S.A.)
Load Lifting System for Vehicles	I.D.: September 20, 1995	2254309 (Great Britain)
Load Lifting System for Vehicles	I.D.: July 13, 1993	5,226,777 (U.S.A.)
Load Lifting System for Vehicles	I.D.: November 25, 1992	92/1138 (South Africa)
Battery Changing System For Electric Battery Powered Vehicles	I.D.: October 19, 1994	2255755 (Great Britain)
Battery Changing System For Electric Battery Powered Vehicles	I.D.: November 17, 1992	5,163,537 (U.S.A.)
Battery Changing System For Electric Battery Powered Vehicles	I.D.: January 27, 1993	92/2955 (South Africa)
Pivoted Lifting Device	I.D.: July 23, 1998	687586 (Australia)
Pivoted Lifting Device	I.D.: May 26, 1999	1126697 (China)
Pivoted Lifting Device	I.D.: September 30, 1998	2293362 (Great Britain)
Pivoted Lifting Device	I.D.: April 10, 2004	192366 (India)
Pivoted Lifting Device	I.D.: August 29, 1995	619/DEL/2003 (India)
Pivoted Lifting Device	I.D.: September 9, 1997	5,664,932 (U.S.A.)
Pivoted Lifting Device	I.D.: August 28, 1996	95/6640 (South Africa)
Pivoted Locking Device	I.D.: January 5, 1999	5,855,467 (U.S.A.)
Advancing Tailpiece	I.D.: January 11, 2001	724470 (Australia)
Advancing Tailpiece	I.D.: April 24, 2006	2282438 (Canada)
Advancing Tailpiece	I.D.: September 18, 2002	ZL98803101.9 (China)
Advancing Tailpiece	I.D.: July 25, 2001	0964979 (European Community)
Advancing Tailpiece	I.D.: April 28, 2006	1036644B (Hong Kong)
Advancing Tailpiece	F.D.: March 2, 1998	Application No. US98/03902

		(PCT)
Advancing Tailpiece	I.D.: October 30, 2001	6,308,819 (U.S.A.)
Advancing Tailpiece	I.D.: January 25, 2006	1096106 (European Community) Divisional Application of EP 0964979, see above
Self-Aligning Battery Changing System For Electric Battery Powered Vehicles	I.D.: September 5, 2000	6,113,342 (U.S.A.)
Self-Aligning Battery Changing System For Electric Battery Powered Vehicles	I.D.: June 5, 2003	757,520 (Australia)
Self-Aligning Battery Changing System For Electric Battery Powered Vehicles	F.D.: Applied for July 23, 1999	Application No. 2278417 (Canada)
Self-Aligning Battery Changing System for Electric Battery Powered Vehicles	F.D.: Applied for July 19, 1999	Application No. 749/MAS/99 (India)
Self-Aligning Battery Changing System For Electric Battery Powered Vehicles	F.D.: Applied for July 19, 1999	Application No. 99/4783 (South Africa)
Adjustable Yoke Assembly	I.D.: December 7, 1999	5,996,766 (U.S.A.)
Adjustable Yoke Assembly	I.D.: June 13, 2000	6,073,745 (U.S.A.)
Automated Continuous Haulage System	I.D.: July 11, 2006	7,076,346 (U.S.A.)
Automated Continuous Haulage System	F.D.: Applied for October 9, 2001	Application No. 2002213066 (Australia)
Automated Continuous Haulage System	F.D.: Applied for October 9, 2001	Application No. PI011456.2 (Brazil)
Automated Continuous Haulage System	F.D.: Applied for October 9, 2001	Application No. 2425443 (Canada)
Automated Continuous Haulage System	F.D.: Applied for October 9, 2001	Application No. 00533/DEL/NP/2003 (India)
Automated Continuous Haulage System	I.D.: July 15, 2004	14902 (Kazakhstan)
Automated Continuous Haulage System	F.D.: Applied for October 9, 2001	Application No. 2003/003165 (Mexico)
Automated Continuous Haulage System	F.D.: Applied for October 9, 2001	Application No. WO 02/30792 (PCT)
Automated Continuous Haulage System	F.D.: Applied for October 9, 2001	Application No. 01818896.6 (China)

Automated Continuous Haulage System	F.D.: Applied for October 9, 2001	Application No. 365615 (Poland)
Automated Continuous Haulage System	F.D.: Applied for October 9, 2001	Application No. 2003113333 (Russia)
Automated Continuous Haulage System	F.D.: Applied for October 9, 2001	Application No. 2003054173 (Ukraine)
Automated Continuous Haulage System	I.D.: June 30, 2004	2003/2814 (South Africa)
Method and Apparatus for Safety Protection of Temporary Roof Support (Load Sensing Pin)	I.D.: September 20, 2005	6,945,738 (U.S.A.)
Method and Apparatus for Safety Protection of Temporary Roof Support (Load Sensing Pin)	F.D.: Applied for September 8, 2004	Application No. 2004210522 (Australia)
Method and Apparatus for Safety Protection of Temporary Roof Support (Load Sensing Pin)	F.D.: Applied for September 28, 2004	Application No. 200410012074.3 (China)
Method and Apparatus for Safety Protection of Temporary Roof Support (Load Sensing Pin)	F.D.: Applied for August 26, 2004	Application No. 511/KOL/2004 (India)
Method and Apparatus for Safety Protection of Temporary Roof Support (Load Sensing Pin)	F.D.: Applied for August 27, 2004	Application No. 2004/6857 (South Africa)
Mining Machine with Roof Bolting Apparatus	I.D.: June 28, 1988	4,753,486 (U.S.A.)
Continuous Miner	I.D.: June 20, 1989	4,840,432 (U.S.A.)
Continuous Miner (Continuation In Part Application of above U.S. 4,840,432)	I.D.: June 26, 1990	4,936,632 (U.S.A.)
Mining Machine with Roof Bolting Apparatus	I.D.: September 4, 1990	4,953,914 (U.S.A.)
Continuous Miner with Duct Assembly	I.D.: January 21, 1992	5,082,331 (U.S.A.)
Redundant Remote Control System Used on a Continuous Miner	I.D.: May 5, 1992	5,110,189 (U.S.A.)
Continuous Miner with Duct Assembly	I.D.: April 14, 1992	5,104,194 (U.S.A.)
Continuous Mining Machine with a Boom Assembly Providing Different Cutting Heights	I.D.: April 7, 1992	5,102,199 (U.S.A.)
Drum Assembly for a Continuous Miner	I.D.: September 9, 1992	5,143,423 (U.S.A.)
Vane Type Conveyor for a Mining Machine Drum	I.D.: June 9, 1992	5,120,112 (U.S.A.)
Twin Scrubber & Air Diffuser for a Continuous Miner & Method of Ventilation	I.D.: February 23, 1993	5,188,427 (U.S.A.)
Mining Machine with Cascading Conveyor System	I.D.: March 2, 1993	5,190,352 (U.S.A.)

Mining Machine with Cascading Conveyor System	I.D.: May 13, 1995	661049 (Australia)
Mining Machine with Cascading Conveyor System	I.D.: August 31, 1994	2260826 (Great Britain)
Mining Machine with Cascading Conveyor System	I.D.: September 6, 1993	92/8010 (South Africa)
Method and Apparatus for Collecting and Removing Dust on a Mining Machine	I.D.: October 19, 1993	5,253,925 (U.S.A.)
Method and Apparatus for Suppressing Dust and Frictional Ignition on a Continuous Mining Machine	I.D.: April 16, 1996	5,507,565 (U.S.A.)
Method and Apparatus for Suppressing Dust and Frictional Ignition on a Continuous Mining Machine	I.D.: March 12, 1998	688634 (Australia)
Method and Apparatus for Suppressing Dust and Frictional Ignition on a Continuous Mining Machine	I.D.: August 19, 1998	2296271 (Great Britain)
Method and Apparatus for Suppressing Dust and Frictional Ignition on a Continuous Mining Machine	I.D.: August 26, 1996	95/10742 (South Africa)
Conveyor Lift and Service Shoe Assembly	I.D.: March 14, 2000	6,036,276 (U.S.A.)
Phasing Valve Assembly for Supplying Water to a Mining Machine Cutter Drum	I.D.: June 6, 2000	6,070,944 (U.S.A.)
Phasing Valve Assembly for Supplying Water to a Mining Machine Cutter Drum	I.D.: October 4, 2001	739155 (Australia)
Phasing Valve Assembly for Supplying Water to a Mining Machine Cutter Drum	I.D.: December 5, 2001	2328231 (Great Britain)
Phasing Valve Assembly for Supplying Water to a Mining Machine Cutter Drum	I.D.: May 10, 1999	98/7183 (South Africa)
Spring Applied Hydraulic Release Brake	I.D.: April 16, 2002	6,371,255 (U.S.A.)
Mining Machine Having Stabilizing Apparatus	I.D.: June 17, 2003	6,578,926 (U.S.A.)
Mining Machine Having Stabilizing Apparatus (PCT Application)	F.D.: June 13, 2002	PCT/SE/02/01161 Publication No. WO 02/103160

U.S. Patent Applications

<u>Title</u>	<u>Filing Date</u>	<u>Application No.</u>
Confidential ¹	09/19/2008	61/098,437
Confidential	09/03/2009	29/342,978
Confidential	09/03/2009	29/342,980
Confidential	09/03/2009	12/553,729
Confidential	09/10/2009	12/557,119
Confidential	09/03/2009	29/342,981

¹ Titles of unpublished U.S. patent applications have been redacted to preserve the confidential nature of the subject matter of the applications.

U.S. Patents

Title	Patent No.	Expiration Date
Flexible ladder for use on moving conveyances	5,064,023	11/26/2010
Nose cone bearing arrangement	5,085,520	12/10/2010
Drill automation control system	5,358,058	9/27/2013
Impact hammer	5,398,772	07/01/2013
Reverse percussion device	5,413,186	5/13/2014
Drill automation control system	5,465,798	10/25/2014
Reverse percussion device	5,634,524	5/8/2015
Joint isolation system and a dump body incorporating the same	6,568,744	5/21/2022
Method of forming a stress isolating joint on a dump body	6,754,945	3/27/2023
Feed table pivot pin constraining device	7,100,709	9/8/2023
Hydraulic circuit for a hydraulic excavator	6,996,979	10/21/2017

U.S. Patent Applications

Title	Filing Date	Application No.
Confidential	10/31/2008	12/290,579
Confidential	2/4/2009	12/365,252
Confidential	3/23/2009	12/409,063
Confidential	4/24/2009	12/429,587
Confidential	6/3/2009	61/183,870
Profile for fitting a digger with a hoe bucket or loading shovel and method for production thereof	12/2/2003	10/537,772
Method of reducing the load of one or more engines in a large hydraulic excavator	4/24/2007	12/299,406

Foreign Patents

Title	Country	Patent No.
Impact hammer	AU	AU0676077 (AU1994000073235)
Feed table pivot pin constraining device	BR	BR0403672 (BRPI0403672A)
Feed table pivot pin constraining device	JP	JP2005083189 (JP2004000232963)
Impact hammer	ZA	ZA9405056 (ZA1994009405056)
Drill automation control system	ZA	ZA9407538 (ZA1994009407538)
Reverse percussion device	AU	AU0689592 (AU1995000026004)
Impact hammer	JP	JP03470188 (JP1995000504136)
Drill automation control system	AU	AU0681707 (AU1994000078450)
Drill automation control system	CA	CA2172802 (CA1994002172802)
Feed table pivot pin constraining device	EP	1512831
Feed table pivot pin constraining device	JP	JP2005083189 (JP2004000232963)
Reverse percussion device	CA	CA2190248 (CA1995002190248)
Profile for fitting a digger with a hoe bucket or loading shovel and method for production thereof	AU	AU3299297 (AU2003000299297)
Method and device for regulation of a cooling fan drive on an internal combustion engine in a construction or working machine	AU	AU0213877 (AU2001000013877)
Profile for fitting a digger with a hoe bucket or loading shovel and method for production thereof	CA	CA2507593 (CA2003002507593)
Method and device for regulation of a cooling fan drive on an internal combustion engine in a construction or working machine	CA	CA2426452 (CA2001002426452)
Saugrohraufladung fuer mobilhydraulik	DE	DE4306377 (DE1993004306377)
Schraubensicherung	DE	DE19640143 (DE1996019640143)
Universal pressure measurement flange for HP hydraulic systems	DE	DE19626330 (DE1996019626330)

Anordnung einer Klimaanlage	DE	DE10159589 (DE2001010159589)
Conditioning unit for excavator	DE	DE19850500 (DE1998019850500)
Profil fuer tiefloeffel und - Ladeschaufelarruestungen eines baggers sowie verfahren zur herstellung desselben	DE	DE10257041 (DE2002010257041)
Verfahren und einrichtung zur kuehlung des im arbeitskreislauf einer baumaschine, insbesondere eines hydraulikbaggers, vorhandenen hydraulikoeles	DE	DE4232542 (DE1992004232542)
Verfahren zur regelung insbesondere der schwenkeinrichtung einer mobilen arbeitsmaschine	DE	DE59903472 (DE1999059903472)
Verfahren und einrichtung zur regelung der temperatur von hydraulikoeel	DE	DE102005043110 (DE2005100043110)
Verfahren zur lastminderung eines oder mehrerer motore in einem gross- hydraulikbagger	DE	DE102006020441 (DE2006100020441)
Anordnung einer Klimaanlage	DE	DE20119692 (DE2001020119692U)
Kettenspanneinrichtung	DE	DE202006013043 (DE2006200013043U)
Verfahren zur regelung insbesondere der schwenkeinrichtung einer mobilen arbeitsmaschine	DE	DE19824319 (DE1998019824319)
Raupenfahrwerk fuer Bagger	DE	DE10132903 (DE2001010132903)
Verfahren und einrichtung zur regelung eines luefterantriebes einer brennkraftmaschine in bau- und/oder arbeitsmaschinen	DE	DE10044607 (DE2000010044607)
Control for the scoop flap of a construction machine	EP	EP0873452 (EP1996000905812)
Method for regulating especially the pivoting device of a mobile machine	EP	EP1084308 (EP1999000925003)
Profile for fitting a digger with a hoe bucket or loading shovel and method for production thereof	EP	EP1567728 (EP2003000799468)
Profile for fitting a digger with a hoe bucket or loading shovel and method for production thereof		WO04053241 (WO2003EP0013544)
Method of reducing the load of one or more engines in a large hydraulic		WO07124892 (WO2007EP0003582)

excavator		
Method and device for regulation of a cooling fan drive on an internal combustion engine in a construction or working machine	EP	EP1315888 (EP2001000982242)
Scraper bowl with a moveable cutting edge	AU	AU0196782 (AU2001000096782)
Two speed gear box	AU	AU0211554 (AU2001000011554)
Two speed gear box		WO0230698 (WO2001US0031519)
Scraper bowl with a moveable cutting edge		WO0231272 (WO2001US0031679)
Extended retarding using scr's	AU	AU0595636 (AU1987000077468)
Rim	AU	AU0597416 (AU1987000077467)
Retarding system for diesel-electric vehicles	CA	CA1280192 (CA1987000547973)
Perfezionamento nelle escavatrici a benna	IT	IT1188851 (IT1979000050133)
The use of scr's in extended retarding	ZA	ZA8706435 (ZA1987019876435)
Joint isolation system and a dump body incorporating the same		WO02096702 (WO2002US0016221)