

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT3440859

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DAVID R. HALL	07/15/2015

RECEIVING PARTY DATA

Name:	NOVATEK IP, LLC
Street Address:	2185 TRACY HALL PARKWAY
City:	PROVO
State/Country:	UTAH
Postal Code:	84606

PROPERTY NUMBERS Total: 190

Property Type	Number
Patent Number:	7179018
Patent Number:	7223049
Patent Number:	7186104
Patent Number:	7231766
Patent Number:	7387465
Patent Number:	7396085
Patent Number:	7387464
Patent Number:	7473052
Patent Number:	7544011
Patent Number:	7413375
Patent Number:	7607876
Patent Number:	7641418
Patent Number:	7287818
Patent Number:	7591607
Patent Number:	7416145
Patent Number:	7591608
Patent Number:	7712996
Patent Number:	7575425
Patent Number:	7503628
Patent Number:	7588388

PATENT

Property Type	Number
Patent Number:	7753303
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Patent Number:	7726905
Patent Number:	7712692
Patent Number:	7549821
Patent Number:	7458645
Patent Number:	7523794
Patent Number:	7654178
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Patent Number:	7507053
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Patent Number:	7717365
Patent Number:	7712693
Patent Number:	7854566
Patent Number:	7854078
Patent Number:	8240404

Property Type	Number
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Application Number:	13157279
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Application Number:	13170479
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Application Number:	13414634
Application Number:	61651592
Application Number:	61656339
Application Number:	61678371

Property Type	Number
Application Number:	61678362
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Application Number:	61758345
Application Number:	13900735
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Application Number:	13955094
Application Number:	13956034
Application Number:	14168398
Application Number:	14168103
Application Number:	14188805
Application Number:	14224350
Application Number:	14707475
PCT Number:	US2006006815
PCT Number:	US2011040238
PCT Number:	US2011041539
PCT Number:	US2011052336
PCT Number:	US2015029903

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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Correspondent Name: PHILIP W. TOWNSEND, III

Address Line 1: 2185 TRACY HALL PARKWAY

Address Line 4: PROVO, UTAH 84606

NAME OF SUBMITTER:	PHILIP W. TOWNSEND, III
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SIGNATURE:	/Philip W. Townsend, III/
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DATE SIGNED:	07/15/2015
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Total Attachments: 12

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INTELLECTUAL PROPERTY ASSIGNMENT

WHEREAS, David R. Hall, hereinafter called the "Assignor," possesses the entire right, title, and interest in and to the patents and patent applications listed in the "Schedule" attached hereto;

WHEREAS, Novatek IP, LLC, whose address is 2185 Tracy Hall Parkway, Provo, Utah 84606, hereinafter called the "Assignee," desires to acquire the entire right, title, and interest in and to the patents and patent applications listed in the attached Schedule;

NOW, THEREFORE, for valuable and legally sufficient consideration, the receipt of which is hereby acknowledged, the Assignor hereby sells, assigns, and transfers to the Assignee, the entire right, title, and interest in and to the patents and patent applications listed in the attached Schedule, any patents that may issue from such patent applications in the United States or elsewhere, and all continuations, divisions, renewals and extensions thereof to the full extent of the term or terms for all such patents.

The Assignor hereby covenants and agrees to assist the Assignee, his representatives, successors and assigns, in the prosecution of the patents and patent applications identified above; in the making and prosecution of any other patent applications that the Assignee may elect to make covering the subject matter of those patents and patent applications; in vesting in the Assignee exclusive title in and to all such other patents and patent applications; and in the prosecution of any interference which may arise involving such patents and patent applications; and the Assignor will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.

IN TESTIMONY WHEREOF, I have duly executed this Assignment on this 15 day of July, 2015.



David R. Hall

SCHEDULE

Docket #	Patent Name	Filed Date	Serial #	Patent #
	Fracture Resistant Domed Insert	04 Jan 2001	09/754,435	
85.0071	High-Pressure High-Temperature Polycrystalline Diamond Heat Spreader	18 Oct 2001	09/981,952	
85.0008	Filler for Architectural Panel Joints and Tool	03 Jun 2003	10/453,287	
85.0008-1	Filler for architectural panel joints and tool	16 Aug 2004	10/918,591	
85.0011	Apparatus and Method for Working Asphalt Pavement	13 Dec 2004	11/010,706	7,179,018
85.0013	Apparatus, System and Method for Directional Degradation of a Paved Surface	01 Mar 2005	11/070,411	7,223,049
85.0022	Strain Matched Threads for a High Pressure High Temperature Press Apparatus	06 Jul 2005	11/175,238	7,186,104
85.0031	High Pressure Intensifying Piston Valve	19 Aug 2005	11/161,875	7,231,766
85.0038	Apparatus, System, and Method for Degrading and Removing a Paved Surface	09 Sep 2005	11/162,435	7,387,465
85.0019	Pavement Degradation Tools in a Ganged Configuration	09 Sep 2005	11/162,418	7,396,085
85.002	Pavement Trimming Tool	09 Sep 2005	11/162,429	7,387,464
85.0018	Apparatus, System, and Method for In Situ Pavement Recycling	25 Oct 2005	11/163,615	7,473,052
85.0048	Apparatus for Depositing Pavement Rejuvenation Materials on a Road Surface	12 Dec 2005	11/164,947	7,544,011
85.0055	Apparatus and Method for Heating a Paved Surface with Microwave	18 Jan 2006	11/306,979	7,413,375
85.0054	A Method for Providing Pavement Degradation Equipment	10 Feb 2006	11/307,527	
85.0013	Apparatus, System and Method for Directional Degradation of a Paved Surface	27 Feb 2006	PCT/US06/006815	
85.0056	Locking Mechanism for a High-Pressure, High Temperature Press	10 Mar 2006	11/308,187	7,607,876

Schedule-1

PATENT
REEL: 036109 FRAME: 0117

85.0057	Method for Depositing Rejuvenation Material into a Layer of Aggregate	21 Apr 2006	11/379,643	7,641,418
85.0064	A Rigid Composite Structure with a Superhard Interior Surface	04 May 2006	11/381,709	
85.0065	Vertical Milling Apparatus for a Paved Surface	04 May 2006	11/381,720	7,287,818
85.0066	Asphalt recycling vehicle	29 May 2006	11/421,105	7,591,607
85.0079	Rotary Impact Mill	16 Jun 2006	11/424,833	7,416,145
85.008	A Replaceable Wear Liner with Super Hard Composite Inserts	23 Jun 2006	11/426,202	
85.0072	Diamond Composite Heat Spreader	23 Jun 2006	11/426,255	
85.0081	Checking Density while Compacting	29 Jun 2006	11/427,597	7,591,608
85.0082	Fogging System for an Asphalt Recycling Machine	14 Jul 2006	11/457,670	7,712,996
85.0094	Assembly for HPHT processing	31 Aug 2006	11/469,229	7,575,425
85.0093	Formation breaking assembly	01 Sep 2006	11/469,569	7,503,628
85.0092	Paved surface reconditioning system	06 Sep 2006	11/470,570	7,588,388
85.0096	Rotary Shaft Impactor	21 Sep 2006	11/534,177	7,753,303
85.0105	Rotary shaft impactor	10 Nov 2006	11/558,814	7,866,585
85.0103	Asphalt Reconditioning Machine	10 Nov 2006	11/558,605	7,726,905
85.0106	Rotary Impact Mill	20 Nov 2006	11/561,827	7,712,692
85.0107	Wireless Remote-Controlled Pavement Recycling Machine	27 Nov 2006	11/563,553	7,549,821
85.0108	Milling Machine with Cleaning Moldboard	01 Dec 2006	11/566,151	7,458,645
85.0112	Wear Resistant Assembly	18 Dec 2006	11/612,168	7,523,794

Schedule-2

PATENT
REEL: 036109 FRAME: 0118

85.0097	Hydraulic Chuck with Independently Moveable Jaws	02 Jan 2007	11/619,001	7,654,178
85.0022-1	Strain Matched Threads for a High Pressure High Temperature Press Apparatus	29 Jan 2007	11/668,361	7,354,262
85.011	Oscillating Straight Stream Nozzles	29 Jan 2007	11/668,390	7,507,053
85.0126	Back-up for a HPHT Apparatus	12 Feb 2007	11/674,045	7,481,639
85.0118	Method for Adding Foaming Agents to Pavement Aggregate	13 Feb 2007	11/674,546	7,585,128
85.0129	Anvil for a HPHT Apparatus	13 Feb 2007	11/674,272	7,569,249
85.0128	Piston for a HPHT Apparatus	13 Feb 2007	11/674,224	7,497,675
85.0136-P	Horizontal Drilling	12 Mar 2007	60/894,395	
85.0137	Radial Compression Element for a HTHP Cartridge	27 Mar 2007	11/691,906	7,467,936
85.0152	Lubricating Drum	11 May 2007	11/747,357	7,387,345
85.0153	Method for Providing a Degradation Drum	11 May 2007	11/747,377	7,390,066
85.0155	Rolling Assembly Mounted on a Trencher	14 May 2007	11/748,184	7,690,138
85.0154	OD Grinding Machine	21 May 2007	11/751,527	7,677,954
85.0154-1	OD Grinding Machine	21 May 2007	12/580,385	7,828,627
85.0168	Attack Tool with an Overhang	22 Jun 2007	11/766,865	
85.0172	A Metal Detector for an Asphalt Milling Machine	09 Jul 2007	11/774,635	7,717,521
85.017	Roof Mining Drill Bit	09 Jul 2007	11/774,667	
85.0186	A Metal Detector for a Milling Machine	10 Aug 2007	11/837,347	7,828,392
85.0193	Nozzle for a Pavement Reconditioning Machine	20 Aug 2007	11/841,077	7,798,745

Schedule-3

PATENT
REEL: 036109 FRAME: 0119

85.019	Pavement Degradation Piston Assembly	24 Aug 2007	11/844,447	7,686,536
85.0197	Milling Drum	24 Aug 2007	11/844,466	7,942,605
85.0207	Rolling Assembly and Pick Assembly Mounted on a Trencher	12 Oct 2007	11/871,878	7,681,338
85.0211	Tool Sleeve	30 Oct 2007	11/928,471	7,832,808
85.021	Milling Apparatus for a Paved Surface	02 Nov 2007	11/934,245	7,740,414
85.0216	Preloaded Threads for a High-Temperature High-Pressure Press	29 Nov 2007	11/947,678	7,467,937
85.0153-1	Method of Providing a Degradation Drum	04 Jan 2008	11/969,805	7,862,126
85.0117	Replaceable Segmented Wear Liner	29 Jan 2008	11/668,407	7,451,944
85.0228	Roller Assembly	28 Feb 2008	12/039,510	7,676,968
85.0237	Depth Detection Assembly	29 Feb 2008	12/039,917	7,677,672
85.0258	Degradation insert with overhang	07 Apr 2008	12/098,962	7,717,365
85.0255	Degradation Insert With Overhang	07 Apr 2008	12/098,934	7,712,693
85.0278	Nozzles Incorporated into a Machine	24 Jun 2008	12/145,409	7,854,566
85.0274	Chain Assembly	15 Jul 2008	12/173,123	7,854,078
85.0288	Roof Bolt Bit	10 Sep 2008	12/207,701	8,240,404
85.0289	Sensor for a Degradation Machine	12 Sep 2008	12/209,293	8,061,782
85.029	Sensors on a Degradation Machine	15 Sep 2008	12/210,258	7,887,142
85.0291	High Pressure Press	30 Sep 2008	12/241,125	7,540,732
85.0292	High Pressure Press	30 Sep 2008	12/241,137	7,513,764

Schedule-4

PATENT
REEL: 036109 FRAME: 0120

85.0293	High Pressure Press	30 Sep 2008	12/241,159	7,517,203
85.0304	Skewed Roller on an Exavator	22 Jan 2009	12/357,570	7,950,170
85.0312-P	Formable Sealant Barrier	31 Mar 2009	61/164,956	
85.033	Lead the Bit Rotary Steerable System	24 Jun 2009	12/491,149	8,205,688
85.0339	Formable Sealant Barrier	30 Jul 2009	12/512,889	7,985,059
85.0312	Formable Sealant Barrier	30 Jul 2009	12/512,863	7,927,085
85.0348	High Pressure, High Temperature Back-Up with a Circumferential Relief	29 Oct 2009	12/608,258	8,066,500
85.0122-1	Stress Relief in a Pocket of a Downhole Tool String Component	23 Nov 2009	12/624,292	8,091,627
85.0344	Induction Resistivity Tool that Generates Directed Induced Fields	19 Mar 2010	12/727,896	
85.0356	Method for Controlling a Characteristic of an Induction Field	19 Mar 2010	12/727,924	7,884,611
85.0358	A Drill Bit Jack Element with a Plurality of Inserts	01 Apr 2010	12/752,349	
85.0357	Downhole Steerable Hammer Element	01 Apr 2010	12/752,323	
85.0359	Exhaust Port in a Protruding Element of a Downhole Drill Bit	07 Apr 2010	12/755,534	
85.036	Tracking Shearing Cutters on a Fixed Bladed Drill Bit with Pointed Cutting Elements	23 Apr 2010	12/766,555	8,839,888
85.0361	Disc Cutter for an Earth Boring System	23 Apr 2010	12/766,522	
85.0362	Disc Cutter for an Earth Boring System	23 Apr 2010	12/766,588	
85.0364	Downhole Axial Flux Generator	26 Apr 2010	12/767,378	
85.0363	Downhole Axial Flux Generator	26 Apr 2010	12/767,332	8,421,287
85.0367	Mechanism that Continuously Adjusts a Drum Position	30 Apr 2010	12/771,975	
85.0366	Electric Tap in a Voltage Regulator Circuit	04 May 2010	12/773,609	

Schedule-5

85.0369P	Conveyor System	06 May 2010	61/332,128	
85.037	Central Cutting Region of a Drilling Head Assembly	11 May 2010	12/777,429	8,418,784
85.0371	Downhole Turbine Communication	12 May 2010	12/778,623	
85.0372	Shearing Cutter on a Degradation Drum	10 Jun 2010	12/797,822	
85.0374	Assembly and Method for Identifying a Ferrous Material	30 Jun 2010	12/827,616	
85.0373	Method of Determining Distance to a Ferrous Material	30 Jun 2010	12/827,525	8,314,608
85.0375	Continuously Adjusting Resultant Force in an Excavating Assembly	30 Jun 2010	12/828,273	8,261,471
85.0378	Crawler System for an Earth Boring System	14 Jul 2010	12/836,570	8,353,354
85.0377	Expandable Tool for an Earth Boring System	14 Jul 2010	12/836,564	8,281,880
85.0356-1	Method for Controlling a Depth of an Induction Field	23 Jul 2010	12/842,335	7,948,239
85.038	A Rotary Drive Device within a Rotary Cylinder	28 Jul 2010	12/845,585	
85.0379	Pavement Degradation System with a Diesel Electric Drum	28 Jul 2010	12/844,996	
85.0298	Downhole Resistivity Receiver with Canceling Element	29 Jul 2010	12/846,348	
85.0054-1	Method for Providing Pavement Degradation Equipment	30 Jul 2010	12/847,674	
85.0381	Cylindrical Truss Structure Reinforced Pipe	03 Aug 2010	12/849,730	
85.0375-1	A Measuring Mechanism in a Bore Hole of a Pointed Cutting Element	05 Aug 2010	12/851,349	8,250,786
85.0382	Pick Assembly with Integrated Piston	16 Aug 2010	12/856,959	8,449,039
85.0384	Multiple Milling Drums Secured to the Underside of a Single Milling Machine	22 Sep 2010	12/888,200	8,262,168
85.0385	An End of a Moldboard Positioned Proximate a Milling Drum	23 Sep 2010	12/888,876	7,976,238

Schedule-6

85.0386	End of a Moldboard Positioned Proximate a Milling Drum	23 Sep 2010	12/888,958	7,976,239
85.0388	An Inner Bit Disposed within an Outer Bit	30 Sep 2010	12/894,371	8,550,190
85.0387	Plurality of Liquid Jet Nozzles and a Blower Mechanism that are Directed into a Milling Chamber	30 Sep 2010	12/894,309	8,403,595
85.0389	A Steering Mechanism with a Ring Disposed about an Outer Diameter of a Drill Bit	01 Oct 2010	12/896,063	8,333,254
85.0390-D	Drill Bit with a Pointed Cutting Element	15 Oct 2010	29/376,990	D678,368
85.0391-D	Drill Bit with a Pointed Cutting Element and a Shearing Cutting Element	15 Oct 2010	29/376,995	D674,422
85.0339-1	Formable Sealant Barrier	20 Oct 2010	12/908,144	8,313,677
85.0394	Downhole Centrifugal Drilling Fluid Separator	25 Oct 2010	12/910,963	7,980,332
85.0392	Downhole Centrifugal Drilling Fluid Separator	25 Oct 2010	12/910,924	7,984,772
85.0393	Downhole Centrifugal Drilling Fluid Separator	25 Oct 2010	12/910,941	7,938,203
85.0396	A System for a Downhole String with a Downhole Valve	29 Oct 2010	12/915,893	8,365,821
85.0170-1	Roof Mining Drill Bit	29 Oct 2010	12/915,250	8,573,331
85.0395	A System for a Downhole String with a Downhole Valve	29 Oct 2010	12/915,812	8,365,820
85.0397	A Battery with a Moveable Membrane Separating a Cathode and Anode Cavity	16 Nov 2010	12/946,952	
85.0398	A Battery with a Moveable Membrane Separating a Cathode and Anode Cavity	16 Nov 2010	12/946,975	
85.0399	A Battery with a Moveable Membrane Separating a Cathode and Anode Cavity	16 Nov 2010	12/946,997	
85.04	Drill Bit Steering Assembly	30 Nov 2010	12/956,915	8,820,440
85.0401	Tapered Blade Profile on an Outer Bit	30 Nov 2010	12/957,012	
85.0402	Billing System Integrated into a Milling Machine	30 Nov 2010	12/957,059	

Schedule-7

85.0404	Rotational Milling Chamber	30 Nov 2010	12/957,154	8,256,847
85.0403	System and Method for Exchanging a Milling Drum Assembly	30 Nov 2010	12/957,119	8,770,668
85.0405	Predetermined Failure Mechanism in a Degradation System	09 Dec 2010	12/967,385	
85.0406	Heated Liquid Nozzles Incorporated into a Moldboard	23 Dec 2010	12/978,208	8,485,756
85.0408	An Expandable Tool with at least One Blade that Locks in Place through a Wedging Effect	24 Jan 2011	13/012,564	8,172,009
85.0409	Fluid Path between the Outer Surface of a Tool and an Expandable Blade	28 Jan 2011	13/016,566	
85.0414	Timed Steering Nozzle on a Downhole Drill Bit	15 Mar 2011	13/048,707	8,342,266
85.0413	Timed Steering Nozzle on a Downhole Drill Bit	15 Mar 2011	13/048,595	
85.0415	Forming a Polycrystalline Ceramic in Multiple Sintering Phases	29 Mar 2011	13/074,276	8,728,382
85.0416	Sensor on a Formation Engaging Member of a Drill Bit	31 Mar 2011	13/077,964	8,191,651
85.0417	Sensor on a Formation Engaging Member of a Drill Bit	31 Mar 2011	13/077,970	8,596,381
85.0418	Detecting a Reamer Position through a Magnet Field Sensor	27 Apr 2011	13/094,927	
85.0419	Dust Reduction Mechanism in an Aggregate Removal System	27 May 2011	13/102,827	
85.042	A Data Transmission Apparatus Comprising a Helically Wound Conductor	09 Jun 2011	13/157,279	
85.0385	An End of a Moldboard Positioned Proximate a Milling Drum	13 Jun 2011	PCT/US11/040238	
85.0423	Sintered Polycrystalline Diamond Tubular Members	21 Jun 2011	13/165,593	8,640,768
85.0375	Continuously Adjusting Resultant Force in an Excavating Assembly	22 Jun 2011	PCT/US11/041539	
85.0424	Foam Configured to Suppress Dust on a Surface to be Worked	27 Jun 2011	13/169,704	8,267,482
85.0425	Foam Configured to Suppress Dust on a Surface to be Worked	27 Jun 2011	13/169,779	

Schedule-8

85.0426	Foam Configured to Suppress Dust on a Surface to be Worked	27 Jun 2011	13/169,828	
85.0427	Resilient Connection Between a Pick Shank and Block	28 Jun 2011	13/170,447	8,646,848
85.0428	Resilient Connection between a Pick Shank and Block	28 Jun 2011	13/170,464	
85.0429	Resilient Connection between a Pick Shank and Block	28 Jun 2011	13/170,479	
85.0325-1	Manually Rotatable Tool	13 Jul 2011	13/182,421	8,534,767
85.0433	System for Acquiring Data from a Component	02 Aug 2011	13/195,972	8,738,304
85.0434	System for Acquiring Data from a Component	02 Aug 2011	13/195,979	
85.0435	High Impact Resistant Degradation Element	11 Aug 2011	13/208,103	
85.0064-2	Rigid Composite Structure with a Superhard Interior Surface	16 Aug 2011	13/211,154	8,261,480
85.0437	Conical Inductive Coupler	07 Sep 2011	13/226,723	
85.0403	Quick Exchange for a Milling Drum Assembly	20 Sep 2011	PCT/US11/052336	
85.0441	Optical Window in Wear Assembly	04 Oct 2011	13/252,375	
85.0247-2	Attack Tool	07 Oct 2011	13/269,022	
85.0442-P	Center Tap Coil	08 Dec 2011	61/568,227	
85.0443-P	CNC Press	30 Dec 2011	61/581,714	
85.0125-4	Thick Pointed Superhard Material	03 Jan 2012	13/342,523	
85.0444	Pick with Threaded Shank	17 Jan 2012	13/351,414	
85.0445	Pick with Hardened Core Assembly	23 Jan 2012	13/355,732	8,777,326
85.0446	Downhole Tool Piston Assembly	02 Feb 2012	13/370,644	

Schedule-9

85.0447	Sensors on a Milling Drum	07 Mar 2012	13/414,634	
85.0430-EPC	Pick Assembly with a Contiguous Spinal Region	16 May 2012	12/866,574	
85.0430-CN	Pick Assembly with a Contiguous Spinal Region	16 May 2012	2.0128E+11	
85.0451-P	A Diamond Band	24 May 2012	61/651,592	
85.0452-P	Substrate with Concave Surface	06 Jun 2012	61/656,339	
85.0454-P	Milled Uniform Travel Surface	01 Aug 2012	61/678,371	
85.0453-P	Surface Preparation System	01 Aug 2012	61/678,362	
85.0459-P	Rotatable Cutting Assembly	30 Aug 2012	61/694,851	
85.0462-P	Degradation Pick with Blunt Geometry	30 Jan 2013	61/758,361	
85.0461-P	Multiple Cutters on a Degradation Pick	30 Jan 2013	61/758,345	
85.0451	Biocompatible Sintered Diamond Jewelry	23 May 2013	13/900,735	
85.0173-1	Attack Tool with an Interruption	17 Jun 2013	13/919,749	8,998,346
85.0453	Surface Preparation System	12 Jul 2013	13/940,771	8,899,870
85.0454	Milled Uniform Travel Surface	15 Jul 2013	13/941,721	
85.0456	Pick Tool with a Removable Shank	31 Jul 2013	13/955,094	
85.0455	Ground Penetrating Radar with Variable Dwell Time	31 Jul 2013	13/956,034	
85.0462	Hammer Element on a Degradation Pick	30 Jan 2014	14/168,398	
85.0461	Multiple Cutters on a Degradation Pick	30 Jan 2014	14/168,103	
85.0464	High-Pressure Pump for Use in a High-Pressure Press	25 Feb 2014	14/188,805	

85.0466	Dynamic Seal Assembly	25 Mar 2014	14/224,350	
85.0505	Angled Degradation Pick	08 May 2015	14/707,475	
85.0505	Angled Degradation Pick	08 May 2015	PCT/US15/29903	

Schedule-11