

**ESCO PATENTED PRODUCTS - PAGE 1 OF 4**

***Drive Feed Roll Teeth  
& Adapter (23-3720,  
23-3710 & 23-3715)***

US Pat. 9222353

***EverSharp® Cast Lip  
Shroud ECC-Base-3  
Bases***

US Pat. 8925220

US Pat. 9453328

***EverSharp®  
Cast Lip Shroud Locks***

US Pat. 6729052

US Pat. 7536811

US Pat. 8074383

***EverSharp® Cast  
Lip Shrouds***

US Pat. 6729052

US Pat. 7165347

US Pat. 8024874

US Pat. 8074383

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***EverSharp® LHD Lips***

US Pat. 7451558

***EverSharp®  
LHD Locks***

US Pat. 7080470

US Pat. 7526886

***EverSharp®  
LHD Shrouds***

US Pat. 6993861

US Pat. 7080470

US Pat. 7367144

US Pat. 7451558

***Geovor® Adapters  
Bases and Locks***

US Pat. 6729052

US Pat. 8061064

US Pat. 8356432

US Pat. 8578637

US Pat. 8844175

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***Geovor®  
Points***

US Pat. 6729052

US Pat. 7165347

US Pat. 7730651

US Pat. 8061064

US Pat. 8356432

US Pat. 8578637

US Pat. 8844175

***Helilok®  
Dredge Pins***

US Pat. 6030143

***MAXDRP™ Plus  
Points & Shrouds***

Patent Pending

***Mobile App***

Patent Pending

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***Nemisys® Adapters  
and Tips***

US Pat. 7882649

US Pat. 8122621

US Pat. 8356432

US Pat. 8689472

US Pat. 9222243

***Nemisys® Bridge***

***Adapters for  
EverSharp® Lips***

US Pat. 8356432

***Nemisys® Lips***

US Pat. 7882649

US Pat. 8122621

US Pub. 2013/0318840

***Nemisys® Locks for  
Adapters & Tips***

US Pat. 7882649

US Pat. 8122621

US Pat. 8356432

US Pat. 8689472

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***Nemisys® Locks  
for Shrouds***

US Pat. 6729052

US Pat. 7536811

US Pat. 8074383

***Nemisys® shrouds***

US Pat. 6729052

US Pat. 7165347

US Pat. 8024874

US Pat. 8074383

***Oil Sands DRS Bases***

***DRSAT-E3XP &***

***DRSB-1-E3XP***

US Pat. 9242247

***Posilok® Plus Tips***

US Pat. 7171771

US Pat. 7174661

US Pat. 7832129

US Pat. 8104200

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	<b>ProFill<sup>®</sup></b>		
<b><u>Posilok<sup>®</sup> Plus Wedges</u></b>	<b><u>Dragline Buckets</u></b>	<b><u>ProLink<sup>™</sup> Coupling Links</u></b>	<b><u>ProSugar<sup>™</sup> Hammers</u></b>
US Pat. 7171771	US Pat. 7774959	US Pat 8756907	Patent Pending
US Pat. 7174661	US Pat. 8250785		US Pub. 2015/0314297
US Pat. 8104200	US Pat. 8572870		

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		<b>SV2<sup>®</sup></b>	<b>SV2<sup>®</sup></b>
<b><u>SecureLift<sup>™</sup> Assembly</u></b>	<b><u>Shredder Hammers</u></b>	<b><u>Adapters and Locks</u></b>	<b><u>Points</u></b>
Patent Pending	See pages 3 and 4 below	US Pat. 6993861	US Pat. 6993861
US Pub. 2015/0013134			US Pat. 7367144

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			<b>Ultralok<sup>®</sup> Mining</b>
	<b><u>Ultralok<sup>®</sup> Mining</u></b>	<b><u>Ultralok<sup>®</sup> Mining</u></b>	<b><u>Points with</u></b>
<b><u>Triple Bevel<sup>™</sup> Picks</u></b>	<b><u>Adapters</u></b>	<b><u>Points and Locks</u></b>	<b><u>E3HA Hardening*</u></b>
Patent Pending	US Pat. 7882649	US Pat. 7882649	US Pat. 9561562
US Pub. 2014/0368022	US Pat. 8122621	US Pat. 8122621	*Additional patents for
		US Pat. 8689472	Ultralok <sup>®</sup> Mining points
		US Pat. 8839535	apply as noted herein.
		US Pat. 9322150	
		US Pat. 9493930	

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<b><u>Ultralok<sup>®</sup> Points</u></b>	<b><u>Ultralok<sup>®</sup></u></b>	<b><u>Vortex<sup>™</sup> Dredge</u></b>	<b><u>Whisler Plus<sup>™</sup></u></b>
<b><u>and Locks (U20-U60)</u></b>	<b><u>Adapters (U20-U60)</u></b>	<b><u>Cutter Heads</u></b>	<b><u>Adapters</u></b>
US Pat. 6993861	US Pat. 7882649	US Pat. RE 45,648	US Pat. 6986216
US Pat. 7367144	US Pat. 8122621		US Pat. 6993861
US Pat. 7874086			US Pat. 7171771
US Pat. 7882649			US Pat. 7174661
US Pat. 8122621			US Pat. 7299570
US Pat. 8689472			US Pat. 7451558
US Pat. 8839535			US Pat. 8104200
US Pat. 9493930			

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<b><u>Whisler Plus<sup>™</sup></u></b>	<b><u>Whisler Plus<sup>™</sup></u></b>	<b><u>Whisler Plus<sup>™</sup></u></b>	<b><u>Whisler Plus<sup>™</sup> Shrouds</u></b>
<b><u>Adapters</u></b>	<b><u>Lips</u></b>	<b><u>Shrouds</u></b>	<b><u>Wedges and Spools</u></b>
US Pat. 7171771	US Pat. 6986216	US Pat. 7171771	US Pat. 7171771
US Pat. 7174661		US Pat. 7174661	US Pat. 7174661
US Pat. 7299570		US Pat. 7730652	US Pat. 7730652
US Pat. 7832129		US Pat. 7997017	US Pat. 7832129
US Pat. 8104200		US Pat. 8104200	US Pat. 7997017
		US Pat. 8312650	US Pat. 8104200

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**ESCO PATENTED PRODUCTS - PAGE 3 OF 4**

***\*\*K Series® Points,  
Adapters and Locks***

US Pat. 6735890  
US Pat. 7100315  
US Pat. 7739814

***\*\*K Series®  
Hammered Pins***

US Pat. 6030143  
US Pat. 6735890  
US Pat. 7100315  
US Pat. 7739814

***\*\*K Series®  
Hammerless Pins***

US Pat. 6735890  
US Pat. 7100315  
US Pat. 7739814

\*\*K Series® is a registered trademark of Caterpillar, Inc.

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**Shredding Hammers Covered by US Pat. 8308094 (with Curved Pin Eyes)**

21-9771	23-3776	23-6150	23-9360
21-9772	23-3777	23-6410	23-9365
21-9774	23-3777	23-6410	23-9501
21-9779	23-3778	23-6520	23-9503
21-9780	23-3793	23-6523	23-9521
22-2357	23-3811	23-6530	23-9593
22-2523	23-4111	23-6570	23-9603
22-4981	23-4252	23-6570	23-9931
22-7991	23-4342	23-6580	23-9981
22-7992	23-4510	23-6700	23-9991
22-7994	23-4521	23-6700	24-0001
22-9151	23-4581	23-6860	24-0101
22-9432	23-4593	23-6880	24-0141
23-0385	23-4601	23-6885	24-0361
23-0411	23-4653	23-6890	24-0392
23-0872	23-4881	23-6910	24-0393
23-0922	23-4953	23-6910	24-0402
23-1853	23-4973	23-6920	24-0403
23-2675	23-5710	23-6920	24-1022
23-2723	23-5715	23-6925	24-1090
23-3020	23-5720	23-6930	24-1120
23-3030	23-5750	23-6940	24-1130
23-3040	23-5750	23-7140	24-1201
23-3090	23-5751	23-7340	24-1230
23-3100	23-5755	23-7352	24-1673
23-3120	23-5755	23-7818	24-1683
23-3170	23-5756	23-8131	24-1693
23-3180	23-5756	23-8200	24-1763
23-3690	23-5756	23-8551	24-1801
23-3700	23-5757	23-8601	24-1811
23-3745	23-5780	23-8721	24-3740
23-3772	23-5840	23-8741	24-4161
23-3773	23-5840	23-8873	24-4333
23-3774	23-5890	23-9303	24-4352
23-3775			

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**Shredding Hammers Covered by US Pat. D731564 (Asymmetric design)**

23-3775	23-5751	23-6523	23-6910
23-3778	23-5755	23-6530	23-6930
23-5710	23-5780	23-6570	23-6940
23-5715	23-5890	23-6580	23-7340
23-5720	23-6520	23-6880	23-7352
23-5750			

**Shredding Hammers Covered by US Pat. D731565 (Stepped design)**

23-5715	24-3740	24-4360	24-4780
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