



## PATENTS

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Model	U.S. patent number(s)	Title
<b>Brush chippers</b>		
AX19 brush chipper	<u>STANDARD</u>	
	7011258	Brush chipper and methods of operating same
	7040558	Brush chipper and methods of operating same
	7044409	Brush chipper and methods of operating same
	7232083	Method of operating brush chippers
	7624937	Method of controlling a brush chipper
	7637444	Brush chipper and methods of operating same
	7654479	Method of controlling a brush chipper
	7823813	Lower feed stop bar
	8567706	Wood chipper feed roller
	8628034	Belt tensioning apparatus
	<u>OPTIONAL</u>	
	6138932	Wood chipper with loading boom
6446889	Wood chipper with loading boom	
7562837	Coordinated control of a winch and a brush chipper	
BC600XL brush chipper	7044409	Brush chipper and methods of operating same
	7543767	Methods of constructing a mechanical four-position brush chipper feed control bar
	7721981	Mechanical brush chipper feed control bar
BC700XL brush chipper	7011258	Brush chipper and methods of operating same
	7044409	Brush chipper and methods of operating same
	7654479	Method of controlling a brush chipper
	7823813	Lower feed stop bar
	8141802	Brush chipper

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Model	U.S. patent number(s)	Title
<b>Brush chippers</b>		
BC900XL brush chipper	7011258 7044409 7654479 7823813 8141802	Brush chipper and methods of operating same Brush chipper and methods of operating same Method of controlling a brush chipper Lower feed stop bar Brush chipper
BC1000XL brush chipper	7011258 7044409 7232083 7654479 7624937 7823813 8141802	Brush chipper and methods of operating same Brush chipper and methods of operating same Method of operating brush chippers Method of controlling a brush chipper Method of controlling a brush chipper Lower feed stop bar Brush chipper
BC1200XL brush chipper	<u>STANDARD</u> 7011258 7040558 7044409 7232083 7624937 7654479 7823813 8141802 8567706 <u>OPTIONAL</u> 6138932 6446889 7562837	Brush chipper and methods of operating same Brush chipper and methods of operating same Brush chipper and methods of operating same Method of operating brush chippers Method of controlling a brush chipper Method of controlling a brush chipper Lower feed stop bar Brush chipper Wood chipper feed roller  Wood chipper with loading boom Wood chipper with loading boom Coordinated control of a winch and a brush chipper

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Model	U.S. patent number(s)	Title
<b>Brush chippers</b>		
BC1500 brush chipper	<u>STANDARD</u>	
	7011258	Brush chipper and methods of operating same
	7040558	Brush chipper and methods of operating same
	7044409	Brush chipper and methods of operating same
	7232083	Method of operating brush chippers
	7546964	Brush chipper with improved feed rollers
	7624937	Method of controlling a brush chipper
	7654479	Method of controlling a brush chipper
	7823813	Lower feed stop bar
	8141802	Brush chipper
	<u>OPTIONAL</u>	
	6138932	Wood chipper with loading boom
	6446889	Wood chipper with loading boom
7562837	Coordinated control of a winch and a brush chipper	
BC1800XL brush chipper	<u>STANDARD</u>	
	7011258	Brush chipper and methods of operating same
	7040558	Brush chipper and methods of operating same
	7044409	Brush chipper and methods of operating same
	7232083	Method of operating brush chippers
	7546964	Brush chipper with improved feed rollers
	7624937	Method of controlling a brush chipper
	7654479	Method of controlling a brush chipper
	7823813	Lower feed stop bar
	<u>OPTIONAL</u>	
	6138932	Wood chipper with loading boom
	6446889	Wood chipper with loading boom
	7562837	Coordinated control of a winch and a brush chipper

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Model	U.S. patent number(s)	Title
<b>Brush chippers</b>		
BC2100XL brush chipper	<u>STANDARD</u>	
	7011258	Brush chipper and methods of operating same
	7040558	Brush chipper and methods of operating same
	7044409	Brush chipper and methods of operating same
	7232083	Method of operating brush chippers
	7624937	Method of controlling a brush chipper
	7637444	Brush chipper and methods of operating same
	7654479	Method of controlling a brush chipper
	7823813	Lower feed stop bar
	8567706	Wood chipper feed roller
	8602333	Wood chipper infeed chute
	8628034	Belt tensioning apparatus
	<u>OPTIONAL</u>	
6138932	Wood chipper with loading boom	
6446889	Wood chipper with loading boom	
7562837	Coordinated control of a winch and a brush chipper	
WC2300, WC2300XL, WC2300XLT whole tree chippers	7011258	Brush chipper and methods of operating same
	7040558	Brush chipper and methods of operating same
	7597279	Brush chipper and methods of operating same
	7624937	Method of controlling a brush chipper
	7637444	Brush chipper and methods of operating same
	7654479	Method of controlling a brush chipper
9409310	Combined feed roller and conveyor sprocket/pulley for a tree chipper	
WC2500XL, WC2500TX whole tree chippers	7011258	Brush chipper and methods of operating same
	7040558	Brush chipper and methods of operating same
	7597279	Brush chipper and methods of operating same
	7624937	Method of controlling a brush chipper
	7637444	Brush chipper and methods of operating same
	7654479	Method of controlling a brush chipper
9409310	Combined feed roller and conveyor sprocket/pulley for a tree chipper	

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Model	U.S. patent number(s)	Title
<b>Mini skid steer loaders</b>		
CTX50 mini skid steer	7549500 9321386 9975750 10202266	Apparatus for control of a mobile machine Low profile compact tool carriers Low profile compact tool carriers Low profile compact tool carriers
CTX100 mini skid steer	7549500 9321386 9975750 10202266	Apparatus for control of a mobile machine Low profile compact tool carriers Low profile compact tool carriers Low profile compact tool carriers
CTX160 mini skid steer	7549500 10202266	Apparatus for control of a mobile machine Low-profile compact tool carriers
S450TX mini skid steer	7549500	Apparatus for control of a mobile machine
S725TX mini skid steer	7549500	Apparatus for control of a mobile machine
S800TX mini skid steer	7549500	Apparatus for control of a mobile machine
S925TX mini skid steer	7549500	Apparatus for control of a mobile machine

Model	U.S. patent number(s)	Title
<b>Stump cutters</b>		
SC552 stump cutter	10039239 10231389	Method and apparatus for controlling the operation of a stump cutter Stump cutter
SC852 stump cutter	10039239 10231389	Method and apparatus for controlling the operation of a stump cutter Stump cutter
SC70TX stump cutter	10039239	Method and apparatus for controlling the operation of a stump cutter
SC802 stump cutter	10039239	Method and apparatus for controlling the operation of a stump cutter

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Model	U.S. patent number(s)	Title
<b>Tooling and accessories</b>		
QuickFire® connection system	8991490	Tapered thread configuration with improved durability
	9016366	Tapered thread configuration with improved durability
	9605491	Tapered thread configuration with improved durability
	10227832	Tapered thread configuration with improved durability
Armor drilling system	8939237	Underground drilling apparatus
Yellow Jacket™ cutter system	8020591	Indexable stump cutter tooth
	8522843	Indexable stump cutter tooth
	9585313	Indexable stump cutter tooth

Model	U.S. patent number(s)	Title
<b>Trenchers – utility installation</b>		
RTX450 ride-on tractor	8430188	Apparatus for converting a wheeled vehicle to a tracked vehicle
	8801115	Apparatus for converting a wheeled vehicle to a tracked vehicle
	10017216	Apparatus for converting a wheeled vehicle to a tracked vehicle
	D587727	Quad track trencher
RTX550 ride-on tractor	8245800	Apparatus for converting a wheeled vehicle to a tracked vehicle
	8430188	Apparatus for converting a wheeled vehicle to a tracked vehicle
	8801115	Apparatus for converting a wheeled vehicle to a tracked vehicle
	9352776	Apparatus for converting a wheeled vehicle to a tracked vehicle
	10017216	Apparatus for converting a wheeled vehicle to a tracked vehicle
	D587727	Quad track trencher
RTX750 ride-on tractor	8245800	Apparatus for converting a wheeled vehicle to a tracked vehicle
	8430188	Apparatus for converting a wheeled vehicle to a tracked vehicle
	8827013	Apparatus for converting a wheeled vehicle to a tracked vehicle
	8801115	Apparatus for converting a wheeled vehicle to a tracked vehicle
	9079614	Apparatus for converting a wheeled vehicle to a tracked vehicle
	9180910	Apparatus for converting a wheeled vehicle to a tracked vehicle
	9352776	Apparatus for converting a wheeled vehicle to a tracked vehicle
10017216	Apparatus for converting a wheeled vehicle to a tracked vehicle	
D587727	Quad track trencher	

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Model	U.S. patent number(s)	Title
<b>Trenchers – utility installation</b>		
RTX1250 ride-on tractor	8245800 8430188 8827013 9079614 9180910 9352776 10017216 D587727	Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Quad track trencher
RTX1250i2 ride-on tractor	8245800 8430188 8827013 9079614 9180910 9352776 10017216	Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle
XTS1250i2 ride-on tractor	8245800 8430188 8827013 9079614 9180910 9352776 10017216	Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle Apparatus for converting a wheeled vehicle to a tracked vehicle

Model	U.S. patent number(s)	Title
<b>Trommel screens</b>		
TR6450 trommel screen	10118197	Automatic folding and deploying deflectors for conveyor

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Model	U.S. patent number(s)	Title
<b>Vacuum excavators</b>		
XR2 vacuum excavator	10655300	Cyclonic separation systems and hydro excavation vacuum apparatus incorporating same

Model	U.S. patent number(s)	Title
<b>Forage models</b>		
504 PRO G3	10827685	Hydraulic brake for wrap material
604 PRO G3	10827685	Hydraulic brake for wrap material
604R	<u>OPTIONAL</u> 10827685	Hydraulic brake for wrap material
ZR5-1200 self-propelled baler	USD794086 USD836678 10850723	Self-propelled agricultural machine Self-propelled agricultural machine Self-propelled vehicles having a steering position sensor

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