



## PATENTS

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
BC900XL 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>		
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 <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 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
Brush Chippers		
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
	<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
	<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
Brush Chippers		
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
	<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
Horizontal Grinders		
HG4000G2 horizontal grinder	<u>STANDARD</u> 9168535 10737275	Adjustable anvil for comminuting apparatus Mill box for a horizontal grinder
	<u>OPTIONAL</u> 9370776 9375723  9675976	Mounting block for attaching a reducing element to a rotary drum Cutter assembly and adjustable cutter for use in comminuting apparatus Hammer support for rotary tool
HG6800TX horizontal grinder	<u>STANDARD</u> 9168535 10737275	Adjustable anvil for comminuting apparatus Mill box for a horizontal grinder
	<u>OPTIONAL</u> 9370776 9375723  9675976	Mounting block for attaching a reducing element to a rotary drum Cutter assembly and adjustable cutter for use in comminuting apparatus Hammer support for rotary tool

Model	U.S. Patent Number(s)	Title
Forage Models		
504 PRO G3 baler	10827685	Hydraulic brake for wrap material
604 PRO G3 baler	10827685	Hydraulic brake for wrap material
604R baler	<u>OPTIONAL</u> 10827685	Hydraulic brake for wrap material
ZR5-1200 self-propelled baler	USD794086	Self-propelled agricultural machine
	USD836678	Self-propelled agricultural machine
	10850723	Self-propelled vehicles having a steering position sensor
	10888043	Self-propelled baling vehicle
	10953918	Self-propelled vehicles including a differential system
	10980183	Self-propelled vehicles with extendable devices

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Model	U.S. Patent Number(s)	Title
<b>Mini Skid Steers</b>		
CTX50 mini skid steer	7549500 9321386 9975750 10202266 10597843	Apparatus for control of a mobile machine Low profile compact tool carriers Low profile compact tool carriers Low profile compact tool carriers Utility loader with high lift loader arms and unifying hand grip for dual traction controls levers
CTX100 mini skid steer	7549500 9321386 9975750 10202266 10597843	Apparatus for control of a mobile machine Low profile compact tool carriers Low profile compact tool carriers Low profile compact tool carriers Utility loader with high lift loader arms and unifying hand grip for dual traction controls levers
CTX160 mini skid steer	7549500 10202266 10597843	Apparatus for control of a mobile machine Low-profile compact tool carriers Utility loader with high lift loader arms and unifying hand grip for dual traction controls levers
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	Method and apparatus for controlling the operation of a stump cutter
	10231389	Stump cutter
SC852 stump cutter	10039239	Method and apparatus for controlling the operation of a stump cutter
	10231389	Stump cutter
SC70TX 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>Stump Cutters</b>		
SC802 stump cutter	10039239	Method and apparatus for controlling the operation of a stump cutter
SC30TX stump cutter	9462759	Stump grinder with laterally offset grinding arm operated by single joystick
	10117388	Stump grinder with laterally offset grinding arm operated by single joystick
	10292341	Stump grinder with laterally offset grinding arm operated by single joystick
	10993389	Stump grinder with laterally offset grinding arm operated by single joystick
SC382 stump cutter	9462759	Stump grinder with laterally offset grinding arm operated by single joystick
	10117388	Stump grinder with laterally offset grinding arm operated by single joystick
	10292341	Stump grinder with laterally offset grinding arm operated by single joystick
	10993389	Stump grinder with laterally offset grinding arm operated by single joystick

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
Vermeer cutter system	10926268	Cutter mounting systems and cutters for the same

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Model	U.S. Patent Number(s)	Title
Tooling and Accessories		
PG6/PG5 Pullback Grapple	10900294	Pullback system for drilling tool

Model	U.S. Patent Number(s)	Title
Trenchers – Utility Installation		
RTX450 ride-on tractor	8430188 8801115 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 Quad track trencher
RTX550 ride-on tractor	8245800 8430188 8801115 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 Quad track trencher
RTX750 ride-on tractor	8245800 8430188 8827013 8801115 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 Apparatus for converting a wheeled vehicle to a tracked vehicle Quad track trencher
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 Apparatus for converting a wheeled vehicle to a tracked vehicle Quad track trencher

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Model	U.S. Patent Number(s)	Title
Trenchers – Utility Installation		
RTX1250i2 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
	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
XTS1250i2 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
	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

Model	U.S. Patent Number(s)	Title
Trommel Screens		
TR6450 trommel screen	10118197	Automatic folding and deploying deflectors for conveyor

Model	U.S. Patent Number(s)	Title
Vacuum Excavators		
XR2 vacuum excavator	10655300	Cyclonic separation systems and hydro excavation vacuum apparatus incorporating same

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