

CPC**COOPERATIVE PATENT CLASSIFICATION****B27B**

SAWS; COMPONENTS OR ACCESSORIES THEREFOR (saws specially adapted for pruning or debranching [A01G 3/08](#); sawing apparatus specially adapted for felling trees [A01G 23/091](#); features not restricted to a particular type of wood saw [B23D](#), e.g. attaching saw blades [B23D 51/00](#); machine tool frames, beds, pillars or analogous members, in general [B23Q 1/01](#))

B27B 1/00

Methods for subdividing trunks or logs essentially involving sawing (features of machines used, [see the relevant groups for the machines](#))

B27B 1/002

- . { [by cross-cutting](#) (saw benches with non-feedable circular saw blades for cross-cutting laterally fed workpieces [B27B 5/228](#); cross-cutting reciprocating saws with power drive [B27B 11/00](#)) }

B27B 1/005

- . { [including the step of dividing the log into sector-shaped segments](#) }

B27B 1/007

- . { [taking into account geometric properties of the trunks or logs to be sawn, e.g. curvature](#) }

B27B 3/00

Gang saw mills; Other sawing machines with reciprocating saw blades, specially designed for length sawing of trunks

B27B 3/02

- . with vertically-reciprocating saw frame

B27B 3/04

- .. with multiple- blade saw frame

B27B 3/06

- .. with side blade saw frame

B27B 3/08

- ... combined with multiple-blade saw frame

B27B 3/10

- .. Saw frames or guides therefor

B27B 3/12

- .. Mechanisms for producing the reciprocating movement of the saw frame; Arrangements for damping vibration; Arrangements for counter-balancing ([B27B 3/26](#) takes precedence)

B27B 3/14

- .. Arrangements for raising or lowering the feed rollers

B27B 3/16

- .. Driving mechanisms for the feed rollers

B27B 3/18

- .. Controlling equipment, e.g. for controlling the drive

B27B 3/20

- .. Equipment for guiding the sawn part of timber during machining, e.g. preventing faults due to torsional stress

B27B 3/22

- . with horizontally-reciprocating saw frame

B27B 3/24

- .. Arrangements for raising and lowering the saw frame

B27B 3/26

- .. Mechanisms for producing the reciprocating movement of the saw frame; Arrangements for damping vibrations; Arrangements for counter-balancing

B27B 3/28

- . Components

B27B 3/30

- .. Blade attachments, e.g. saw buckles; Stretching devices

B27B 3/32

- ... the stretching devices being equipped with screw-threaded or wedging means

- B27B 3/34 . . . the stretching devices being actuated by fluid pressure
- B27B 3/36 . . . Devices for adjusting the mutual distance of the saw blades
- B27B 3/38 . . . Spacing bars; Spacing plates
- B27B 3/40 . . . Devices for adjusting the overhang of the saw

Guidance heading: Circular saws

B27B 5/00 Sawing machines working with circular { or cylindrical } saw blades (for length sawing of trunks [B27B 7/00](#)); Components or equipment therefor

- B27B 5/02 . characterised by a special purpose only
- B27B 5/04 . . for edge trimming {(equipment for adjusting the mutual distance between the saw blades [B27B 5/34](#))}
- B27B 5/06 . . for dividing plates in parts of determined size, e.g. panels
- B27B 5/061 . . . { Devices having saws perpendicular to each other ([B27B 5/075](#) takes precedence)}
- B27B 5/063 . . . { Sawing travelling workpieces }
- B27B 5/065 . . . with feedable saw blades, e.g. arranged on a carriage
- B27B 5/07 the plate being positioned in a substantially vertical plane ([B27B 5/075](#) takes precedence)
- B27B 5/075 characterised by having a plurality of saw blades, e.g. turning about perpendicular axes
- B27B 5/08 . . for sawing with the saw blade abutting parallel against a surface of the workpiece
- B27B 5/10 . Wheeled circular saws; Circular saws designed to be attached to tractors or other vehicles and driven by same {(saw assemblies designed to be mounted on or driven by tractors [B27B 11/12](#))}
- B27B 5/12 . Cylinder saws {([B27C 1/007](#) takes precedence)}
- B27B 5/14 . Rim-driven circular saws
- B27B 5/16 . Saw benches ([B27B 15/06](#) takes precedence)
- B27B 5/165 . . { Convertible sawing devices }
- B27B 5/18 . . with feedable circular saw blade, e.g. arranged on a carriage
- B27B 5/181 . . . { the saw blade being arranged underneath a work-table }
- B27B 5/182 { the saw blade performing a pivoting movement only }
- B27B 5/184 { the saw blade performing a rectilinear movement only }
- B27B 5/185 . . . { the saw blade being carried by a pivoted lever ([B27B 5/181](#) and [B27B 5/188](#) take precedence)}
- B27B 5/187 . . . { the saw blade being fitted on a movable carriage ([B27B 5/181](#) takes precedence)}
- B27B 5/188 . . . { the saw blade being mounted on a hanging arm or at the end of a set of bars, e.g. parallelograms }

B27B 5/20	...	the saw blade being adjustable according to depth or angle of cut; Radial saws, i.e. sawing machines with a pivoted radial arm for guiding the movable carriage
B27B 5/201	....	{ Radial sawing machines; Machines having a saw blade on an extendable radial arm }
B27B 5/202	....	{ with the saw blade underneath a work-table }
B27B 5/203	.....	{ the saw blade performing a pivoting movement only }
B27B 5/205	.....	{ the saw blade performing a rectilinear movement only }
B27B 5/206	....	{ the saw blade being carried by a pivoted lever (B27B 5/208 takes precedence)}
B27B 5/207	....	{ the saw blade being fitted on a movable carriage }
B27B 5/208	....	{ the saw blade being mounted on a hanging arm or at the end of a set of bars, e.g. parallelograms }
B27B 5/22	..	with non-feedable circular saw blade
B27B 5/222	...	{ the saw blade being arranged underneath the work-table; Guiding arrangements for the work-table }
B27B 5/224	...	{ the workpieces being fitted on a pivoting support }
B27B 5/226	...	{ the workpieces being radially fed by means of a turning drum }
B27B 5/228	...	{ Cross-cutting automatically laterally-fed travelling workpieces; Reducing lumber to desired lengths }
B27B 5/24	...	the saw blade being adjustable according to depth or angle of cut
B27B 5/243	....	{ the saw blade being arranged underneath the work-table (the circular saw blade arranged underneath a stationary work-table for sawing material in general B23D 45/06)}
B27B 5/246	....	{ End cutting of automatically laterally-fed travelling workpieces }
B27B 5/26	...	the table being adjustable according to depth or angle of cut
B27B 5/265	....	{ with the saw blade arranged underneath the work-table }
B27B 5/29	.	Details; Component parts; Accessories
B27B 5/30	..	for mounting or securing saw blades or saw spindles
B27B 5/32	...	Devices for securing circular saw blades to the saw spindle
B27B 5/325	....	{ using fluid pressure means }
B27B 5/34	...	Devices for securing a plurality of circular saw blades on a single saw spindle; Equipment for adjusting the mutual distance {(arrangements for adjusting the mutual distances of circular saw machines for lengthwise sawing of trunks B27B 7/04)}
B27B 5/36	...	Mounting for swivelling or tilting the circular saw blade, { e.g. using an adjustable mounting (slotting or mortising machines B27F 5/02)}
B27B 5/38	..	Devices for braking the circular saw blade or the saw spindle; Devices for damping vibrations of the circular saw blade, e.g. silencing {(B23D 47/005 takes precedence)}
B27B 7/00		Sawing machines working with circular saw blades, specially designed for length sawing of trunks

- B27B 7/02
 - . by making use of circular saws mounted substantially at right angles, e.g. vertically and horizontally
- B27B 7/04
 - . by making use of a plurality of circular saws mounted on a single spindle; Arrangements for adjusting the mutual distances {(equipment for adjusting the mutual distance of circular wood saws in general [B27B 5/34](#))}
- B27B 9/00**
Portable power-driven circular saws for manual operation (details or components, e.g. handles, casings, of portable power-driven tools not particularly related to the operation performed [B25F 5/00](#))
- B27B 9/02
 - . Arrangements for adjusting the cutting depth or the amount of tilting
- B27B 9/04
 - . Guiding equipment, e.g. for cutting panels {(circular sawing machines for dividing plates in parts of determined size, e.g. panels [B27B 5/06](#))}
- B27B 11/00**
Cross-cut reciprocating saws with power drive; Appurtenances therefor
- B27B 11/02
 - . Arrangements for guiding the saw blade
- B27B 11/04
 - . . Supports able to be attached to the work
- B27B 11/06
 - . Arrangements for chucking the saw blade, with or without releasable transmission mechanisms for uncoupling the drive
- B27B 11/08
 - . Frames, pillars, or beds
- B27B 11/10
 - . Devices for clamping the work or holding same in position
- B27B 11/12
 - . Saw assemblies designed to be mounted on or driven by tractors {(circular saws designed to be attached to tractors or other vehicles and driven by same [B27B 5/10](#))}

Guidance heading: Band or strap sawing machines

- B27B 13/00**
Band or strap sawing machines (for length cutting of trunks [B27B 15/00](#)); **Components or equipment therefor**
- B27B 13/02
 - . Frames; Pillars
- B27B 13/04
 - . Work-tables; Arrangements for tilting the band saw blade
- B27B 13/06
 - . Saw pulleys; Bearings therefor
- B27B 13/08
 - . Arrangements for stretching the band saw blade {([B23D 55/10](#) takes precedence)}
- B27B 13/10
 - . Guiding equipment for the band saw blade, e.g. guide rollers, back guides, side guides {([B23D 55/08](#) takes precedence)}

- B27B 13/12 . Lubricating devices specially designed for band saw blades
- B27B 13/14 . Braking devices specially designed for band sawing machines, e.g. acting after damage of the band saw blade
- B27B 13/16 . Accessories, e.g. for cooling the saw blade
- B27B 15/00** **Band or strap sawing machines specially designed for length cutting of trunks**
- B27B 15/02 . with horizontally-guided saw blade, i.e. horizontal log band saw
- B27B 15/04 . with vertically-guided saw blade
- B27B 15/06 . in combined arrangement with circular saws for performing simultaneously several sawing procedures
- B27B 15/08 . with a plurality of band saw blades
- B27B 17/00** **Chain saws; Equipment therefor** {(slotting or mortising machines equipped with chain cutters [B27F 5/06](#))}
- B27B 17/0008 . { Means for carrying the chain saw, e.g. handles ([B27B 17/0033](#) takes precedence)}
- B27B 17/0016 . { Devices to adapt the chain saw for other purposes, e.g. drilling }
- B27B 17/0025 . { Length measuring devices incorporated in the chain saw }
- B27B 17/0033 . { Devices for attenuation of vibrations }
- B27B 17/0041 . { Saw benches or saw bucks }
- B27B 17/005 . . { with the saw mounted on a carriage }
- B27B 17/0058 . . { with the saw being pivotally mounted }
- B27B 17/0066 . . { with the saw mounted upright }
- B27B 17/0075 . . { the workpiece being held in a cantilever manner }
- B27B 17/0083 . { Attachments for guiding or supporting chain saws during operation }
- B27B 17/0091 . { Wheeled chain saws; Chain saws mounted on or driven by vehicles, e.g. for sawing trees in situ }
- B27B 17/02 . Chain saws equipped with guide bar ([B27B 17/06](#) takes precedence)
- B27B 17/025 . . { Composite guide bars, e.g. laminated, multisectioned; Guide bars of diverse material }
- B27B 17/04 . . Roller bearing guides
- B27B 17/06 . Chain saws mounted on a bow

B27B 17/08	. Drives or gearings; Devices for swivelling or tilting the chain saw
B27B 17/083	.. { Devices for arresting movement of the saw chain }
B27B 17/086	.. { Angle drives }
B27B 17/10	.. Transmission clutches specially designed for chain saws
B27B 17/12	. Lubricating devices specially designed for chain saws
B27B 17/14	. Arrangements for stretching the chain saw
B27B 19/00	Other reciprocating saws with power drive; Fret-saws
B27B 19/002	. { Power-driven hand saws }
B27B 19/004	.. { in which the saw blade is chucked at both ends }
B27B 19/006	. { with oscillating saw blades; Hand saws with oscillating saw blades }
B27B 19/008	.. { having a plurality of saw blades or saw blades having plural cutting zones }
B27B 19/02	. Saws with a power- driven blade chucked at both ends or at one end only, e.g. jig saws, scroll saws (B27B 19/10 takes precedence)
B27B 19/04	.. characterised by power drive, e.g. by electromagnetic drive
B27B 19/06	.. Stationary machines
B27B 19/065	... { hand-operated or foot-operated }
B27B 19/09	.. portable
B27B 19/10	. Fret-saws, i.e. with bilaterally chucked saw blade in a manually-guided bow
B27B 19/12	.. with power drive
B27B 19/14	.. with hand drive
B27B 21/00	Hand saws without power drive ({ hand saws with oscillating saw blades, } B27B 19/14 takes precedence); Equipment for hand sawing, e.g. saw horses ({ work benches B25H 1/00; saw guides B27B 11/02) }
B27B 21/02	. Buck or hack saws
B27B 21/04	. Cross-cut saws; Pad saws
B27B 21/06	. Arrangements for stretching the saw blade
B27B 21/08	. Arrangements of gauging or adjusting equipment on hand saws, e.g. for limiting the cutting depth
B27B 23/00	Other cutting of wood by non-rotary toothed tools; Tools therefor (cutting with hot wire B27M 1/06)

Guidance heading: Components or accessories for saws**B27B 25/00 Feeding devices for timber in saw mills or sawing machines; Feeding devices for trees** ([{ B27B 29/00 }](#), [B27B 31/00](#) take precedence)

- [B27B 25/02](#) . with feed and pressure rollers
- [B27B 25/04](#) . with feed chains or belts
- [B27B 25/06](#) . Resilient feeding or pressing accessories, e.g. pads, springs
- [B27B 25/08](#) . Feeding devices able to be attached to any sawing machine
- [B27B 25/10](#) . Manually-operated feeding or pressing accessories, e.g. pushers

B27B 27/00 Guide fences or stops for timber in saw mills or sawing machines; Measuring equipment thereon ([safety guards or devices specially designed for wood saws B27G 19/00](#); [constructional features of measuring devices G01B](#))

- [B27B 27/02](#) . arranged laterally and parallel with respect to the plane of the saw blade
- [B27B 27/04](#) . arranged perpendicularly to the plane of the saw blade
- [B27B 27/06](#) . arranged angularly with respect to the plane of the saw blade, e.g. for mitring [{\(devices for mitring wood B27G 5/00\)}](#)
- [B27B 27/08](#) . arranged adjustably, not limited to only one of the groups [B27B 27/02](#) to [B27B 27/06](#)
- [B27B 27/10](#) . Devices for moving or adjusting the guide fences or stops

B27B 29/00 Gripping, clamping, or holding devices for the trunk or log in saw mills or sawing machines ([for other timber, see the relevant groups for the machines; safety guards or devices specially designed for wood saws B27G 19/00](#)); **Travelling trunk or log carriages** ([{for logs being held in a cantilever manner B27B 17/0075}](#))

- [B27B 29/02](#) . Clamping angles; Gripping equipment thereon
- [B27B 29/04](#) . Trunk or log carriages with gripping means which do not pass the saw blade(s), specially for gang saws; Arrangement of gripping accessories thereon
- [B27B 29/06](#) . . Auxiliary trunk or log carriages for carrying initially the log to the feed rollers or for carrying the sawn part of the log
- [B27B 29/08](#) . Trunk or log carriages with gripping means designed to pass the saw blade(s), especially for band saws; Arrangement of gripping accessories thereon; Turning devices thereon
- [B27B 29/085](#) . . [{ Turning devices thereon }](#)

B27B 29/10 . . Assemblies for laterally adjusting or controlling the clamping or turning devices with respect to the thickness of the board to be sawn

B27B 31/00 **Arrangements for conveying, loading, turning, adjusting, or discharging the log or timber, specially designed for saw mills or sawing machines** ([B27B 29/00](#) takes precedence; { arrangements for raising or lowering the feed rollers of gang saw mills [B27B 3/14](#) ; driving mechanisms for the feed rollers of gang saw mills [B27B 3/16](#) })

B27B 31/003 . { with rollers }

B27B 31/006 . { with chains or belts }

B27B 31/02 . Loading equipment for travelling carriages

B27B 31/04 . Turning equipment {(turning devices on trunk or log carriages [B27B 29/08](#))}

B27B 31/06 . Adjusting equipment, e.g. using optical projection {(see also [B27L 5/022](#))}

B27B 31/08 . Discharging equipment

B27B 33/00 **Sawing tools for saw mills, sawing machines, or sawing devices**

B27B 33/02 . Structural design of saw blades or saw teeth

B27B 33/04 . . Gang saw blades

B27B 33/06 . . Band saw blades

B27B 33/08 . . Circular saw blades

B27B 33/10 . . Hand saw blades

B27B 33/12 . . Saw blades having inserted or exchangeably arranged bits or toothed segments

B27B 33/14 . Saw chains {(saw chains for slotting or mortising devices [B27F 5/08](#))}

B27B 33/141 . . { with means to control the depth of cut }

B27B 33/142 . . { Cutter elements }

B27B 33/144 . . . { having cutting inserts or exchangeable cutting teeth }

B27B 33/145 . . . { having plural teeth on a single link }

B27B 33/147 . . { with incorporated lubricating means }

B27B 33/148 . . { with means permitting replacement of cutter elements }

B27B 33/16 . Saw wires; Twisted saw strips

B27B 33/20 . Edge trimming saw blades or tools combined with means to disintegrate waste