

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](#))

Guidance heading:**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