

**CPC****COOPERATIVE PATENT CLASSIFICATION****B27B****SAWS FOR WOOD OR SIMILAR MATERIAL; 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 like 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

**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](#))}

<b>B27B 11/00</b>	<b>Cross-cut reciprocating saws with power drive; Appurtenances therefor</b>
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 <a href="#">B27B 5/10</a> )}

### **Band or strap sawing machines**

<b>B27B 13/00</b>	<b>Band or strap sawing machines (for length cutting of trunks <a href="#">B27B 15/00</a>); Components or equipment therefor</b>
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 {( <a href="#">B23D 55/10</a> takes precedence)}
B27B 13/10	. Guiding equipment for the band saw blade, e.g. guide rollers, back guides, side guides {( <a href="#">B23D 55/08</a> 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
<b>B27B 15/00</b>	<b>Band or strap sawing machines specially designed for length cutting of trunks</b>
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
<b>B27B 17/00</b>	<b>Chain saws; Equipment therefor {(slotting or mortising machines equipped with chain cutters <a href="#">B27F 5/06</a>)}</b>
B27B 17/0008	. {Means for carrying the chain saw, e.g. handles ( <a href="#">B27B 17/0033</a> 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 ( <a href="#">B27B 17/06 takes precedence</a> )
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
<b>B27B 19/00</b>	<b>Other reciprocating saws with power drive; Fret-saws</b>
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 ( <a href="#">B27B 19/10 takes precedence</a> )
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
<b>B27B 21/00</b>	<b>Hand saws without power drive ({hand saws with oscillating saw blades,} <a href="#">B27B 19/14 takes precedence</a>); Equipment for hand sawing, e.g. saw horses {(work benches <a href="#">B25H 1/00</a>; saw guides <a href="#">B27B 11/02</a>)}</b>
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
<b>B27B 23/00</b>	<b>Other cutting of wood by non-rotary toothed tools; Tools therefor (cutting with hot wire <a href="#">B27M 1/06</a>)</b>

**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