

**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 ( <a href="#">B27B 5/208</a> 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 <a href="#">B23D 45/06</a> )}
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 <a href="#">B27B 7/04</a> )}
B27B 5/36	...	Mounting for swivelling or tilting the circular saw blade, {e.g. using an adjustable mounting (slotting or mortising machines <a href="#">B27F 5/02</a> )}
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 {( <a href="#">B23D 47/005</a> takes precedence)}
<b>B27B 7/00</b>		<b>Sawing machines working with circular saw blades, specially designed for length sawing of trunks</b>

- 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