

CPC COOPERATIVE PATENT CLASSIFICATION

B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

SHAPING

B27 WORKING OR PRESERVING WOOD OR SIMILAR MATERIAL; NAILING OR STAPLING MACHINES IN GENERAL

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](#))

WARNING

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

[B27B 33/18](#)

covered by

1/00	Methods for subdividing trunks or logs essentially involving sawing (features of machines used, see the relevant groups for the machines)	3/28	• Components
		3/30	• • Blade attachments, e.g. saw buckles; Stretching devices
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)}	3/32	• • • the stretching devices being equipped with screw-threaded or wedging means
		3/34	• • • the stretching devices being actuated by fluid pressure
1/005	• {including the step of dividing the log into sector-shaped segments}	3/36	• • Devices for adjusting the mutual distance of the saw blades
1/007	• {taking into account geometric properties of the trunks or logs to be sawn, e.g. curvature}	3/38	• • • Spacing bars; Spacing plates
		3/40	• • Devices for adjusting the overhang of the saw
3/00	Gang saw mills; Other sawing machines with reciprocating saw blades, specially designed for length sawing of trunks	Circular saws	
3/02	• with vertically-reciprocating saw frame	5/00	Sawing machines working with circular {or cylindrical} saw blades (for length sawing of trunks B27B 7/00); Components or equipment therefor
3/04	• • with multiple- blade saw frame	5/02	• characterised by a special purpose only
3/06	• • with side blade saw frame	5/04	• • for edge trimming {(equipment for adjusting the mutual distance between the saw blades B27B 5/34)}
3/08	• • • combined with multiple-blade saw frame	5/06	• • for dividing plates in parts of determined size, e.g. panels
3/10	• • Saw frames or guides therefor	5/061	• • • {Devices having saws perpendicular to each other (B27B 5/075 takes precedence)}
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)	5/063	• • • {Sawing travelling workpieces}
3/14	• • Arrangements for raising or lowering the feed rollers	5/065	• • • with feedable saw blades, e.g. arranged on a carriage
3/16	• • Driving mechanisms for the feed rollers	5/07	• • • • the plate being positioned in a substantially vertical plane (B27B 5/075 takes precedence)
3/18	• • Controlling equipment, e.g. for controlling the drive	5/075	• • • • characterised by having a plurality of saw blades, e.g. turning about perpendicular axes
3/20	• • Equipment for guiding the sawn part of timber during machining, e.g. preventing faults due to torsional stress	5/08	• • for sawing with the saw blade abutting parallel against a surface of the workpiece
3/22	• with horizontally-reciprocating saw frame	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)}
3/24	• • Arrangements for raising and lowering the saw frame	5/12	• Cylinder saws {(B27C 1/007 takes precedence)}
3/26	• • Mechanisms for producing the reciprocating movement of the saw frame; Arrangements for damping vibrations; Arrangements for counter-balancing		

- 5/14 . Rim-driven circular saws
- 5/16 . Saw benches ([B27B 15/06 takes precedence](#))
- 5/165 . . {Convertible sawing devices}
- 5/18 . . with feedable circular saw blade, e.g. arranged on a carriage
- 5/181 . . . {the saw blade being arranged underneath a work-table}
- 5/182 {the saw blade performing a pivoting movement only}
- 5/184 {the saw blade performing a rectilinear movement only}
- 5/185 . . . {the saw blade being carried by a pivoted lever ([B27B 5/181 and B27B 5/188 take precedence](#))}
- 5/187 . . . {the saw blade being fitted on a movable carriage ([B27B 5/181 takes precedence](#))}
- 5/188 . . . {the saw blade being mounted on a hanging arm or at the end of a set of bars, e.g. parallelograms}
- 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
- 5/201 {Radial sawing machines; Machines having a saw blade on an extendable radial arm}
- 5/202 {with the saw blade underneath a work-table}
- 5/203 {the saw blade performing a pivoting movement only}
- 5/205 {the saw blade performing a rectilinear movement only}
- 5/206 {the saw blade being carried by a pivoted lever ([B27B 5/208 takes precedence](#))}
- 5/207 {the saw blade being fitted on a movable carriage}
- 5/208 {the saw blade being mounted on a hanging arm or at the end of a set of bars, e.g. parallelograms}
- 5/22 . . with non-feedable circular saw blade
- 5/222 . . . {the saw blade being arranged underneath the work-table; Guiding arrangements for the work-table}
- 5/224 . . . {the workpieces being fitted on a pivoting support}
- 5/226 . . . {the workpieces being radially fed by means of a turning drum}
- 5/228 . . . {Cross-cutting automatically laterally-fed travelling workpieces; Reducing lumber to desired lengths}
- 5/24 . . . the saw blade being adjustable according to depth or angle of cut
- 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](#))}
- 5/246 {End cutting of automatically laterally-fed travelling workpieces}
- 5/26 . . . the table being adjustable according to depth or angle of cut
- 5/265 {with the saw blade arranged underneath the work-table}
- 5/29 . Details; Component parts; Accessories
- 5/30 . . for mounting or securing saw blades or saw spindles
- 5/32 . . . Devices for securing circular saw blades to the saw spindle
- 5/325 {using fluid pressure means}
- 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](#))}
- 5/36 . . . Mounting for swivelling or tilting the circular saw blade{, e.g. using an adjustable mounting (slotting or mortising machines [B27F 5/02](#))}
- 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)}
- 7/00 Sawing machines working with circular saw blades, specially designed for length sawing of trunks**
- 7/02 . by making use of circular saws mounted substantially at right angles, e.g. vertically and horizontally
- 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](#))}
- 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](#))**
- 9/02 . Arrangements for adjusting the cutting depth or the amount of tilting
- 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](#))}
- 11/00 Cross-cut reciprocating saws with power drive; Appurtenances therefor**
- 11/02 . Arrangements for guiding the saw blade
- 11/04 . . Supports able to be attached to the work
- 11/06 . Arrangements for chucking the saw blade, with or without releasable transmission mechanisms for uncoupling the drive
- 11/08 . Frames, pillars, or beds
- 11/10 . Devices for clamping the work or holding same in position
- 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](#))}
- Band or strap sawing machines**
- 13/00 Band or strap sawing machines (for length cutting of trunks [B27B 15/00](#)); Components or equipment therefor**
- 13/02 . Frames; Pillars
- 13/04 . Work-tables; Arrangements for tilting the band saw blade
- 13/06 . Saw pulleys; Bearings therefor
- 13/08 . Arrangements for stretching the band saw blade {(B23D 55/10 takes precedence)}

- 13/10 . Guiding equipment for the band saw blade, e.g. guide rollers, back guides, side guides ([B23D 55/08 takes precedence](#))
 - 13/12 . Lubricating devices specially designed for band saw blades
 - 13/14 . Braking devices specially designed for band sawing machines, e.g. acting after damage of the band saw blade
 - 13/16 . Accessories, e.g. for cooling the saw blade
 - 15/00 Band or strap sawing machines specially designed for length cutting of trunks**
 - 15/02 . with horizontally-guided saw blade, i.e. horizontal log band saw
 - 15/04 . with vertically-guided saw blade
 - 15/06 . in combined arrangement with circular saws for performing simultaneously several sawing procedures
 - 15/08 . with a plurality of band saw blades
 - 17/00 Chain saws; Equipment therefor ({[slotting or mortising machines equipped with chain cutters B27F 5/06](#)})**
 - 17/0008 . {[Means for carrying the chain saw, e.g. handles \(B27B 17/0033 takes precedence\)](#)}
 - 17/0016 . {[Devices to adapt the chain saw for other purposes, e.g. drilling](#)}
 - 17/0025 . {[Length measuring devices incorporated in the chain saw](#)}
 - 17/0033 . {[Devices for attenuation of vibrations](#)}
 - 17/0041 . {[Saw benches or saw bucks](#)}
 - 17/005 . . {[with the saw mounted on a carriage](#)}
 - 17/0058 . . {[with the saw being pivotally mounted](#)}
 - 17/0066 . . {[with the saw mounted upright](#)}
 - 17/0075 . . {[the workpiece being held in a cantilever manner](#)}
 - 17/0083 . {[Attachments for guiding or supporting chain saws during operation](#)}
 - 17/0091 . {[Wheeled chain saws; Chain saws mounted on or driven by vehicles, e.g. for sawing trees *in situ*](#)}
 - 17/02 . Chain saws equipped with guide bar ([B27B 17/06 takes precedence](#))
 - 17/025 . . {[Composite guide bars, e.g. laminated, multisectioned; Guide bars of diverse material](#)}
 - 17/04 . . [Roller bearing guides](#)
 - 17/06 . Chain saws mounted on a bow
 - 17/08 . Drives or gearings; Devices for swivelling or tilting the chain saw
 - 17/083 . . {[Devices for arresting movement of the saw chain](#)}
 - 17/086 . . {[Angle drives](#)}
 - 17/10 . . Transmission clutches specially designed for chain saws
 - 17/12 . Lubricating devices specially designed for chain saws
 - 17/14 . Arrangements for stretching the chain saw
 - 19/00 Other reciprocating saws with power drive; Fret-saws**
 - 19/002 . {[Power-driven hand saws](#)}
 - 19/004 . . {[in which the saw blade is chucked at both ends](#)}
 - 19/006 . {[with oscillating saw blades; Hand saws with oscillating saw blades](#)}
 - 19/008 . . {[having a plurality of saw blades or saw blades having plural cutting zones](#)}
 - 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](#))
 - 19/04 . . characterised by power drive, e.g. by electromagnetic drive
 - 19/06 . . Stationary machines
 - 19/065 . . . {[hand-operated or foot-operated](#)}
 - 19/09 . . portable
 - 19/10 . Fret-saws, i.e. with bilaterally chucked saw blade in a manually-guided bow
 - 19/12 . . with power drive
 - 19/14 . . with hand drive
 - 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](#)})**
 - 21/02 . Buck or hack saws
 - 21/04 . Cross-cut saws; Pad saws
 - 21/06 . Arrangements for stretching the saw blade
 - 21/08 . Arrangements of gauging or adjusting equipment on hand saws, e.g. for limiting the cutting depth
 - 23/00 Other cutting of wood by non-rotary toothed tools; Tools therefor ([cutting with hot wire B27M 1/06](#))**
- Components or accessories for saws**
- 25/00 Feeding devices for timber in saw mills or sawing machines; Feeding devices for trees ({[B27B 29/00](#)}, [B27B 31/00 take precedence](#))**
 - 25/02 . with feed and pressure rollers
 - 25/04 . with feed chains or belts
 - 25/06 . Resilient feeding or pressing accessories, e.g. pads, springs
 - 25/08 . Feeding devices able to be attached to any sawing machine
 - 25/10 . Manually-operated feeding or pressing accessories, e.g. pushers
 - 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](#))**
 - 27/02 . arranged laterally and parallel with respect to the plane of the saw blade
 - 27/04 . arranged perpendicularly to the plane of the saw blade
 - 27/06 . arranged angularly with respect to the plane of the saw blade, e.g. for mitring ({[devices for mitring wood B27G 5/00](#)})
 - 27/08 . arranged adjustably, not limited to only one of the groups [B27B 27/02](#) - [B27B 27/06](#)
 - 27/10 . Devices for moving or adjusting the guide fences or stops
 - 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](#)})**
 - 29/02 . Clamping angles; Gripping equipment thereon

- 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
- 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
- 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
- 29/085 . . {Turning devices thereon}
- 29/10 . . Assemblies for laterally adjusting or controlling the clamping or turning devices with respect to the thickness of the board to be sawn
- 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)**
 - 31/003 . {with rollers}
 - 31/006 . {with chains or belts}
 - 31/02 . Loading equipment for travelling carriages
 - 31/04 . Turning equipment {(turning devices on trunk or log carriages B27B 29/08)}
 - 31/06 . Adjusting equipment, e.g. using optical projection {(see also B27L 5/022)}
 - 31/08 . Discharging equipment
- 33/00 Sawing tools for saw mills, sawing machines, or sawing devices**
 - 33/02 . Structural design of saw blades or saw teeth
 - 33/04 . . Gang saw blades
 - 33/06 . . Band saw blades
 - 33/08 . . Circular saw blades
 - 33/10 . . Hand saw blades
 - 33/12 . . Saw blades having inserted or exchangeably arranged bits or toothed segments
 - 33/14 . Saw chains {(saw chains for slotting or mortising devices B27F 5/08)}
 - 33/141 . . {with means to control the depth of cut}
 - 33/142 . . {Cutter elements}
 - 33/144 . . . {having cutting inserts or exchangeable cutting teeth}
 - 33/145 . . . {having plural teeth on a single link}
 - 33/147 . . {with incorporated lubricating means}
 - 33/148 . . {with means permitting replacement of cutter elements}
 - 33/16 . Saw wires; Twisted saw strips
 - 33/20 . Edge trimming saw blades or tools combined with means to disintegrate waste