

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](#))

WARNINGS

- The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:
[B27B 33/18](#) covered by [B27B 5/12](#)
- In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

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

- 5/08 . . for sawing with the saw blade abutting parallel against a surface of the workpiece
 - 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](#))}
 - 5/12 . Cylinder saws {(machine for producing flat surfaces by cutting through a workpiece with a tool having a rotational vector parallel to the surfaces generated by cutting [B27C 1/007](#))}
 - 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 {(vibration-damping of sawing machines or devices working with circular saw blades [B23D 47/005](#))}
- WARNING**
- Group [B27B 5/38](#) is impacted by reclassification into groups [B27B 5/381](#), [B27G 19/008](#) and [B27G 19/022](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 5/381 . . . {with at least one brake member contacting saw blade portions}
- WARNING**
- Group [B27B 5/381](#) is incomplete pending reclassification of documents from group [B27B 5/38](#).
- Groups [B27B 5/38](#) and [B27B 5/381](#) should be considered in order to perform a complete search.
- 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 {(devices for tensioning strap saw blades of sawing machines [B23D 55/10](#))}
- 13/10 . Guiding equipment for the band saw blade, e.g. guide rollers, back guides, side guides {(devices for guiding or feeding strap saw blades to sawing machines [B23D 55/08](#))}
- 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

WARNING

Group [B27B 13/14](#) is impacted by reclassification into groups [B27B 13/141](#) and [B27G 19/008](#).

Groups [B27B 13/14](#), [B27B 13/141](#) and [B27G 19/008](#) should be considered in order to perform a complete search.

- 13/141 . . {with at least one brake member contacting saw blade portions}
- WARNING**
- Group [B27B 13/141](#) is incomplete pending reclassification of documents from group [B27B 13/14](#).
- Groups [B27B 13/14](#) and [B27B 13/141](#) should be considered in order to perform a complete search.
- 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

WARNING

Group [B27B 17/14](#) is impacted by reclassification into groups [B27B 17/142](#), [B27B 17/144](#) and [B27B 17/146](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 17/142 . . {with adjustment by at least one cam}

WARNING

Group [B27B 17/142](#) is incomplete pending reclassification of documents from group [B27B 17/14](#).

Groups [B27B 17/14](#) and [B27B 17/142](#) should be considered in order to perform a complete search.

- 17/144 . . {with adjustment by at least one threaded screw}

WARNING

Group [B27B 17/144](#) is incomplete pending reclassification of documents from group [B27B 17/14](#).

Groups [B27B 17/14](#) and [B27B 17/144](#) should be considered in order to perform a complete search.

- 17/146 . . {with adjustment of a non-driven sprocket or pulley relative to the guide bar}

WARNING

Group [B27B 17/146](#) is incomplete pending reclassification of documents from group [B27B 17/14](#).

Groups [B27B 17/14](#) and [B27B 17/146](#) should be considered in order to perform a complete search.

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 .

21/04 .

21/06 .

21/08 .

- . Buck or hack saws
- . Cross-cut saws; Pad saws
- . Arrangements for stretching the saw blade
- . 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 .

25/04 .

25/06 .

- . with feed and pressure rollers
- . with feed chains or belts
- . Resilient feeding or pressing accessories, e.g. pads, springs
- . Feeding devices able to be attached to any sawing machine
- . 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 .

27/04 .

27/06 .

27/08 .

27/10 .

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

29/04 .

29/06 .

29/08 .

29/085 .

29/10 .

- . Clamping angles; Gripping equipment thereon
- . Trunk or log carriages with gripping means which do not pass the saw blade(s), specially for gang saws; Arrangement of gripping accessories thereon
- . . Auxiliary trunk or log carriages for carrying initially the log to the feed rollers or for carrying the sawn part of the log
- . 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
- . . {Turning devices thereon}
- . . 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