## 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 THEREOF**

(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 see B23D, e.g. attaching saw blades B23D 51/00; machine tool frames, beds, pillars or like members, in general B23Q 1/01)

**WARNINGS**

1. 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
2. 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.

<table>
<thead>
<tr>
<th>1/00</th>
<th>Methods for subdividing trunks or logs essentially involving sawing (features of machines used, see the relevant groups for the machines)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/002</td>
<td>. 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)</td>
</tr>
<tr>
<td>1/005</td>
<td>. (including the step of dividing the log into sector-shaped segments)</td>
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<tr>
<td>1/007</td>
<td>. (taking into account geometric properties of the trunks or logs to be sawn, e.g. curvature)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3/00</th>
<th>Gang saw mills; Other sawing machines with reciprocating saw blades, specially designed for length sawing of trunks</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/02</td>
<td>. with vertically-reciprocating saw frame</td>
</tr>
<tr>
<td>3/04</td>
<td>. with multiple-blade saw frame</td>
</tr>
<tr>
<td>3/06</td>
<td>. with side blade saw frame</td>
</tr>
<tr>
<td>3/08</td>
<td>. combined with multiple-blade saw frame</td>
</tr>
<tr>
<td>3/10</td>
<td>. Saw frames or guides thereof</td>
</tr>
<tr>
<td>3/12</td>
<td>. Mechanisms for producing the reciprocating movement of the saw frame; Arrangements for damping vibration; Arrangements for counter-balancing (B27B 3/26 takes precedence)</td>
</tr>
<tr>
<td>3/14</td>
<td>. Arrangements for raising or lowering the feed rollers</td>
</tr>
<tr>
<td>3/16</td>
<td>. Driving mechanisms for the feed rollers</td>
</tr>
<tr>
<td>3/18</td>
<td>. Controlling equipment, e.g. for controlling the drive</td>
</tr>
<tr>
<td>3/20</td>
<td>. Equipment for guiding the sawn part of timber during machining, e.g. preventing faults due to torsional stress</td>
</tr>
<tr>
<td>3/22</td>
<td>. with horizontally-reciprocating saw frame</td>
</tr>
<tr>
<td>3/24</td>
<td>. Arrangements for raising and lowering the saw frame</td>
</tr>
</tbody>
</table>

| 3/26 | . Mechanisms for producing the reciprocating movement of the saw frame; Arrangements for damping vibrations; Arrangements for counter-balancing |
| 3/28 | . Components |
| 3/30 | . Blade attachments, e.g. saw buckles; Stretching devices |
| 3/32 | . the stretching devices being equipped with screw-threaded or wedging means |
| 3/34 | . the stretching devices being actuated by fluid pressure |
| 3/36 | . Devices for adjusting the mutual distance of the saw blades |
| 3/38 | . Spacing bars; Spacing plates |
| 3/40 | . Devices for adjusting the overhang of the saw |

### Circular saws

<table>
<thead>
<tr>
<th>5/00</th>
<th>Sawing machines working with circular (or cylindrical) saw blades (for length sawing of trunks B27B 7/00); Components or equipment therefor</th>
</tr>
</thead>
<tbody>
<tr>
<td>5/02</td>
<td>. characterised by a special purpose only</td>
</tr>
<tr>
<td>5/04</td>
<td>. for edge trimming (equipment for adjusting the mutual distance between the saw blades B27B 5/54)</td>
</tr>
<tr>
<td>5/06</td>
<td>. for dividing plates in parts of determined size, e.g. panels</td>
</tr>
<tr>
<td>5/061</td>
<td>. [Devices having saws perpendicular to each other (B27B 5/075 takes precedence)]</td>
</tr>
<tr>
<td>5/063</td>
<td>. [Saw travelling workpieces]</td>
</tr>
<tr>
<td>5/065</td>
<td>. with feedable saw blades, e.g. arranged on a carriage</td>
</tr>
<tr>
<td>5/07</td>
<td>. . . the plate being positioned in a substantially vertical plane (B27B 5/075 takes precedence)</td>
</tr>
<tr>
<td>5/075</td>
<td>. . . characterised by having a plurality of saw blades, e.g. turning about perpendicular axes</td>
</tr>
</tbody>
</table>
Circular saws

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 [(B27C 1/007 takes precedence)]
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]
5/269 . . . . . Details; Component parts; Accessories
5/29 . . . 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; Apparitenances 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)
13/00 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 55/08 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 ((slitting 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, multisected; 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; Fretsaws
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 formiting 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
Components or accessories for saws  

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