

## SECTION B — PERFORMING OPERATIONS; TRANSPORTING

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

**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 like members, in general B23Q 1/01) [5]

#### Subclass index

#### SAWS CHARACTERISED BY THE ACTIVE ELEMENT

Reciprocating.....	3/00, 11/00, 19/00
Circular.....	5/00, 7/00, 9/00
Band or strap.....	13/00, 15/00
Chain.....	17/00
Other kinds.....	23/00
PORTABLE OR HAND SAWS.....	9/00, 21/00
ACTIVE ELEMENTS.....	23/00, 33/00
ACCESSORIES.....	25/00-31/00
SAWING TRUNKS OR LOGS, SAWS SPECIALLY ADAPTED THEREFOR.....	1/00, 3/00, 7/00, 15/00

**1/00 Methods for subdividing trunks or logs essentially involving sawing** (features of machines used, see the relevant groups for the machines)

**3/00 Gang saw mills; Other sawing machines with reciprocating saw blades, specially designed for length sawing of trunks**

- 3/02 • with vertically-reciprocating saw frame
- 3/04 • • with multiple-blade saw frame
- 3/06 • • with side blade saw frame
- 3/08 • • • combined with a 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
- 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

**5/00 Sawing machines working with circular 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

5/06 • • for dividing plates in parts of determined size, e.g. panels

5/065 • • • with feedable saw blades, e.g. arranged on a carriage [6]

5/07 • • • the plate being positioned in a substantially vertical plane (B27B 5/075 takes precedence) [6]

5/075 • • • characterised by having a plurality of saw blades, e.g. turning about perpendicular axes [6]

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

5/12 • Cylinder saws

5/14 • Rim-driven circular saws

5/16 • Saw benches (B27B 15/06 takes precedence)

5/18 • • with feedable circular saw blade, e.g. arranged on a carriage

## 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
- 5/22
  - with non-feedable circular saw blade
- 5/24
  - the saw blade being adjustable according to depth or angle of cut
- 5/26
  - the table being adjustable according to depth or angle of cut
- 5/29
  - Details; Component parts; Accessories [2]
- 5/30
  - for mounting or securing saw blades or saw spindles
- 5/32
  - Devices for securing circular saw blades to the saw spindle
- 5/34
  - Devices for securing a plurality of circular saw blades on a single saw spindle; Equipment for adjusting the mutual distance
- 5/36
  - Mounting for swivelling or tilting the circular saw blade
- 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

### 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

### 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) [4]

- 9/02
  - Arrangements for adjusting the cutting depth or the amount of tilting
- 9/04
  - Guiding equipment, e.g. for cutting panels

### 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

## 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
- 13/10
  - Guiding equipment for the band saw blade, e.g. guide rollers, back guides, side guides

- 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

- 17/02
  - Chain saws equipped with guide bar (B27B 17/06 takes precedence)
- 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
- 17/10
  - 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 (details or components, e.g. casings, bodies, of portable power-driven tools not particularly related to the operation performed B25F 5/00) [4]

- 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
- 19/09
  - portable [2]
- 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 (B27B 19/14 takes precedence); Equipment for hand sawing, e.g. saw horses

- 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 31/00 takes precedence) [5]

- 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
  - 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** (safety guards or devices specially designed for wood saws B27G 19/00; for other timber, see the relevant groups for the machines); **Travelling trunk or log carriages**
  - 29/02 • Clamping angles; Gripping equipment thereon
  - 29/04 • Trunk or log carriages with gripping means which do not pass the saw blade(s), especially 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
- 29/10 • • 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)
  - 31/02 • Loading equipment for travelling carriages
  - 31/04 • Turning equipment
  - 31/06 • Adjusting equipment, e.g. using optical projection
  - 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
  - 33/16 • Saw wires; Twisted saw strips
  - 33/18 • Saw cylinders having a toothed front rim
  - 33/20 • Edge trimming saw blades or tools combined with means to disintegrate waste [2]