

**CPC****COOPERATIVE PATENT CLASSIFICATION****B21H**

**MAKING PARTICULAR METAL OBJECTS BY ROLLING, e.g. SCREWS, WHEELS, RINGS, BARRELS, BALLS** ([essentially from sheet metal B21D](#))

**NOTE**

This subclass covers rolling operations which are specially adapted for use in the manufacture of particular objects and which are not essentially combined with any different metal-working operation unless the latter is a subsidiary operation performed in the same machine.

**B21H 1/00**

**Making articles shaped as bodies of revolution** ([rolling tubes B21B 17/00 to B21B 25/00](#))

## B21H 1/02

- discs; disc wheels

## B21H 1/04

- with rim, e.g. railways wheels [{or pulleys}](#)

## B21H 1/06

- rings of restricted axial length ([extending closed shapes of metal bands by simultaneous rolling at two or more zones B21B 5/00](#))

## B21H 1/08

- railway wheel rims

## B21H 1/10

- rims for pneumatic tyres

## B21H 1/12

- rings for ball or roller bearings

## B21H 1/14

- balls, rollers, cone rollers, or like bodies

## B21H 1/16

- for bearings

## B21H 1/18

- cylinders, e.g. rolled transversely [{cross-rolling}](#)

## B21H 1/20

- rolled longitudinally

## B21H 1/22

- characterised by use of rolls having circumferentially varying profile; [{Die-rolling}](#)

**B21H 3/00**

**Making helical bodies or bodies having parts of helical shape** ([helical gears B21H 5/00](#); [forming tubes or tube walls into helical shape B21D 11/06, B21D 15/04](#))

## B21H 3/02

- external screw-threads; [{Making dies for thread rolling}](#)

## B21H 3/022

- [{combined with rolling splines, ribs, grooves or the like, e.g. using compound dies}](#)

## B21H 3/025

- [{Rolling locking screws}](#)

## B21H 3/027

- [{Rolling of self-tapping screws}](#)

## B21H 3/04

- Making by means of profiled-rolls [{or die rolls}](#)

## B21H 3/042

- [{Thread-rolling heads}](#)

## B21H 3/044

- [{working axially}](#)

## B21H 3/046

- [{working radially}](#)

## B21H 3/048

- [{working tangentially}](#)

## B21H 3/06

- Making by means of profiled members other than rolls, e.g. [{reciprocating flat dies or}](#) jaws, moved longitudinally or curvilinearly with respect to each other

## B21H 3/065

- [{Planetary thread rolling}](#)

## B21H 3/08

- internal screw-threads

|                  |  |
|------------------|--|
| B21H 3/10        | <ul style="list-style-type: none"> <li>twist-drills; screw-taps</li> </ul>   |
| B21H 3/12        | <ul style="list-style-type: none"> <li>articles with helicoidal surface (<a href="#">bending strip or the like helically B21D 11/06</a>)</li> </ul>  |
| <b>B21H 5/00</b> | <b>Making gear wheels, {racks, spline shafts or worms}</b>   |
| B21H 5/005       | <ul style="list-style-type: none"> <li>{Worms}</li> </ul>  |
| B21H 5/02        | <ul style="list-style-type: none"> <li>with cylindrical outline, {e.g. by means of die rolls (<a href="#">worms B21H 5/005</a>)}</li> </ul>  |
| B21H 5/022       | <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{Finishing gear teeth with cylindrical outline, e.g. burnishing}</li> </ul> </li> </ul>                                     |
| B21H 5/025       | <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{Internally geared wheels}</li> </ul> </li> </ul>   |
| B21H 5/027       | <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{by rolling using reciprocating flat dies, e.g. racks (<a href="#">B21H 5/022 takes precedence</a>)}</li> </ul> </li> </ul> |
| B21H 5/04        | <ul style="list-style-type: none"> <li>bevel gears</li> </ul>  |
| B21H 5/045       | <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{Finishing bevel gear teeth, e.g. burnishing}</li> </ul> </li> </ul>  |
| <b>B21H 7/00</b> | <b>Making articles not provided for in the preceding groups, e.g. agricultural tools, dinner forks, knives, spoons (<a href="#">nails, pins B21G 3/30</a>)</b>   |
| B21H 7/002       | <ul style="list-style-type: none"> <li>{Fasteners, rivets}</li> </ul>  |
| B21H 7/005       | <ul style="list-style-type: none"> <li>{railway sleepers or chains}</li> </ul>   |
| B21H 7/007       | <ul style="list-style-type: none"> <li>{Taper rolling, e.g. leaf springs}</li> </ul>   |
| B21H 7/02        | <ul style="list-style-type: none"> <li>spades; shovels</li> </ul>  |
| B21H 7/04        | <ul style="list-style-type: none"> <li>hoes</li> </ul>   |
| B21H 7/06        | <ul style="list-style-type: none"> <li>ploughshares; axes</li> </ul>   |
| B21H 7/08        | <ul style="list-style-type: none"> <li>forks; rakes {spoons}</li> </ul>  |
| B21H 7/10        | <ul style="list-style-type: none"> <li>knives; sickles; scythes</li> </ul>   |
| B21H 7/12        | <ul style="list-style-type: none"> <li>horse-shoes; articles of like shape, e.g. wear-resisting attachments for shoes</li> </ul>   |
| B21H 7/14        | <ul style="list-style-type: none"> <li>knurled articles</li> </ul>   |
| B21H 7/16        | <ul style="list-style-type: none"> <li>turbine blades; compressor blades; propeller blades</li> </ul>  |
| B21H 7/18        | <ul style="list-style-type: none"> <li>grooved pins; Rolling grooves, e.g. oil grooves, in articles {(<a href="#">B21H 5/00 takes precedence</a>)}</li> </ul>  |
| B21H 7/182       | <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{Rolling annular grooves}</li> </ul> </li> </ul>  |
| B21H 7/185       | <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{Filet rolling, e.g. of crankshafts}</li> </ul> </li> </ul> </li> </ul>             |
| B21H 7/187       | <ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>{Rolling helical or rectilinear grooves}</li> </ul> </li> </ul>   |
| <b>B21H 8/00</b> | <b>Rolling metal of indefinite length in repetitive shapes specially designed for the manufacture of particular objects {e.g. <a href="#">checkered sheets</a>}</b>  |
| B21H 8/005       | <ul style="list-style-type: none"> <li>{Embossing sheets or rolls}</li> </ul>  |
| B21H 8/02        | <ul style="list-style-type: none"> <li>Rolls of special shape</li> </ul>   |
| <b>B21H 9/00</b> | <b>Feeding arrangements for rolling machines or apparatus manufacturing articles dealt with in this subclass</b>   |
| B21H 9/02        | <ul style="list-style-type: none"> <li>for screw-rolling machines</li> </ul>   |