

**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>