

**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 . twist-drills; screw-taps
- B21H 3/12 . articles with helicoidal surface (bending strip or the like helically [B21D 11/06](#))
- B21H 5/00** **Making gear wheels, {racks, spline shafts or worms}**
- B21H 5/005 . {Worms}
- B21H 5/02 . with cylindrical outline, {e.g. by means of die rolls (worms [B21H 5/005](#))}
- B21H 5/022 . . {Finishing gear teeth with cylindrical outline, e.g. burnishing}
- B21H 5/025 . . { Internally geared wheels}
- B21H 5/027 . . {by rolling using reciprocating flat dies, e.g. racks ([B21H 5/022](#) takes precedence)}
- B21H 5/04 . bevel gears
- B21H 5/045 . . {Finishing bevel gear teeth, e.g. burnishing}
- B21H 7/00** **Making articles not provided for in the preceding groups, e.g. agricultural tools, dinner forks, knives, spoons (nails, pins [B21G 3/30](#))**
- B21H 7/002 . { Fasteners, rivets}
- B21H 7/005 . {railway sleepers or chains}
- B21H 7/007 . {Taper rolling, e.g. leaf springs}
- B21H 7/02 . spades; shovels
- B21H 7/04 . hoes
- B21H 7/06 . ploughshares; axes
- B21H 7/08 . forks; rakes {spoons}
- B21H 7/10 . knives; sickles; scythes
- B21H 7/12 . horse-shoes; articles of like shape, e.g. wear-resisting attachments for shoes
- B21H 7/14 . knurled articles
- B21H 7/16 . turbine blades; compressor blades; propeller blades
- B21H 7/18 . grooved pins; Rolling grooves, e.g. oil grooves, in articles {([B21H 5/00](#) takes

precedence))

- B21H 7/182 . . {Rolling annular grooves}
- B21H 7/185 . . . { Filet rolling, e.g. of crankshafts}
- B21H 7/187 . . {Rolling helical or rectilinear grooves}

**B21H 8/00** **Rolling metal of indefinite length in repetitive shapes specially designed for the manufacture of particular objects {e.g. checkered sheets}**

- B21H 8/005 . { Embossing sheets or rolls}

- B21H 8/02 . Rolls of special shape

**B21H 9/00** **Feeding arrangements for rolling machines or apparatus manufacturing articles dealt with in this subclass**

- B21H 9/02 . for screw-rolling machines