

**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