

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.

Guidance heading:**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

recedence) }

- 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