

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