

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