

CPC COOPERATIVE PATENT CLASSIFICATION

B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

SHAPING

B21 MECHANICAL METAL-WORKING WITHOUT ESSENTIALLY REMOVING MATERIAL; PUNCHING METAL

(NOTES omitted)

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.

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

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| <p>1/00 Making articles shaped as bodies of revolution
(rolling tubes B21B 17/00 - B21B 25/00)</p> <p>1/02 . discs; disc wheels</p> <p>1/04 . . with rim, e.g. railways wheels {or pulleys}</p> <p>1/06 . rings of restricted axial length (extending closed shapes of metal bands by simultaneous rolling at two or more zones B21B 5/00)</p> <p>1/08 . . railway wheel rims</p> <p>1/10 . . rims for pneumatic tyres</p> <p>1/12 . . rings for ball or roller bearings</p> <p>1/14 . balls, rollers, cone rollers, or like bodies</p> <p>1/16 . . for bearings</p> <p>1/18 . cylinders, e.g. rolled transversely {cross-rolling}</p> <p>1/20 . . rolled longitudinally</p> <p>1/22 . characterised by use of rolls having circumferentially varying profile {; Die-rolling}</p> <p>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)</p> <p>3/02 . external screw-threads {; Making dies for thread rolling}</p> <p>3/022 . . {combined with rolling splines, ribs, grooves or the like, e.g. using compound dies}</p> <p>3/025 . . {Rolling locking screws}</p> <p>3/027 . . {Rolling of self-tapping screws}</p> <p>3/04 . . Making by means of profiled-rolls {or die rolls}</p> <p>3/042 . . . {Thread-rolling heads}</p> <p>3/044 {working axially}</p> <p>3/046 {working radially}</p> <p>3/048 {working tangentially}</p> <p>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</p> <p>3/065 . . . {Planetary thread rolling}</p> | <p>3/08 . internal screw-threads</p> <p>3/10 . twist-drills; screw-taps</p> <p>3/12 . articles with helicoidal surface (bending strip or the like helically B21D 11/06)</p> <p>5/00 Making gear wheels {, racks, spline shafts or worms}</p> <p>5/005 . {Worms}</p> <p>5/02 . with cylindrical outline {, e.g. by means of die rolls (worms B21H 5/005)}</p> <p>5/022 . . {Finishing gear teeth with cylindrical outline, e.g. burnishing}</p> <p>5/025 . . {Internally geared wheels}</p> <p>5/027 . . {by rolling using reciprocating flat dies, e.g. racks (B21H 5/022 takes precedence)}</p> <p>5/04 . bevel gears</p> <p>5/045 . . {Finishing bevel gear teeth, e.g. burnishing}</p> <p>7/00 Making articles not provided for in the preceding groups, e.g. agricultural tools, dinner forks, knives, spoons (nails, pins B21G 3/30)</p> <p>7/002 . {Fasteners, rivets}</p> <p>7/005 . {railway sleepers or chains}</p> <p>7/007 . {Taper rolling, e.g. leaf springs}</p> <p>7/02 . spades; shovels</p> <p>7/04 . hoes</p> <p>7/06 . ploughshares; axes</p> <p>7/08 . forks; rakes {spoons}</p> <p>7/10 . knives; sickles; scythes</p> <p>7/12 . horse-shoes; articles of like shape, e.g. wear-resisting attachments for shoes</p> <p>7/14 . knurled articles</p> <p>7/16 . turbine blades; compressor blades; propeller blades</p> <p>7/18 . grooved pins; Rolling grooves, e.g. oil grooves, in articles {(B21H 5/00 takes precedence)}</p> <p>7/182 . . {Rolling annular grooves}</p> <p>7/185 . . . {Filet rolling, e.g. of crankshafts}</p> |
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B21H

- 7/187 . . {Rolling helical or rectilinear grooves}
- 8/00 Rolling metal of indefinite length in repetitive shapes specially designed for the manufacture of particular objects {, e.g. checkered sheets}**
- 8/005 . {Embossing sheets or rolls}
- 8/02 . Rolls of special shape
- 9/00 Feeding arrangements for rolling machines or apparatus manufacturing articles dealt with in this subclass**
- 9/02 . for screw-rolling machines