

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	<ul style="list-style-type: none"> twist-drills; screw-taps
B21H 3/12	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> {Worms}
B21H 5/02	<ul style="list-style-type: none"> with cylindrical outline, {e.g. by means of die rolls (worms B21H 5/005)}
B21H 5/022	<ul style="list-style-type: none"> <ul style="list-style-type: none"> {Finishing gear teeth with cylindrical outline, e.g. burnishing}
B21H 5/025	<ul style="list-style-type: none"> <ul style="list-style-type: none"> {Internally geared wheels}
B21H 5/027	<ul style="list-style-type: none"> <ul style="list-style-type: none"> {by rolling using reciprocating flat dies, e.g. racks (B21H 5/022 takes precedence)}
B21H 5/04	<ul style="list-style-type: none"> bevel gears
B21H 5/045	<ul style="list-style-type: none"> <ul style="list-style-type: none"> {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	<ul style="list-style-type: none"> {Fasteners, rivets}
B21H 7/005	<ul style="list-style-type: none"> {railway sleepers or chains}
B21H 7/007	<ul style="list-style-type: none"> {Taper rolling, e.g. leaf springs}
B21H 7/02	<ul style="list-style-type: none"> spades; shovels
B21H 7/04	<ul style="list-style-type: none"> hoes
B21H 7/06	<ul style="list-style-type: none"> ploughshares; axes
B21H 7/08	<ul style="list-style-type: none"> forks; rakes {spoons}
B21H 7/10	<ul style="list-style-type: none"> knives; sickles; scythes
B21H 7/12	<ul style="list-style-type: none"> horse-shoes; articles of like shape, e.g. wear-resisting attachments for shoes
B21H 7/14	<ul style="list-style-type: none"> knurled articles
B21H 7/16	<ul style="list-style-type: none"> turbine blades; compressor blades; propeller blades
B21H 7/18	<ul style="list-style-type: none"> grooved pins; Rolling grooves, e.g. oil grooves, in articles {(B21H 5/00 takes precedence)}
B21H 7/182	<ul style="list-style-type: none"> <ul style="list-style-type: none"> {Rolling annular grooves}
B21H 7/185	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {Filet rolling, e.g. of crankshafts}
B21H 7/187	<ul style="list-style-type: none"> <ul style="list-style-type: none"> {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	<ul style="list-style-type: none"> {Embossing sheets or rolls}
B21H 8/02	<ul style="list-style-type: none"> Rolls of special shape
B21H 9/00	Feeding arrangements for rolling machines or apparatus manufacturing articles dealt with in this subclass
B21H 9/02	<ul style="list-style-type: none"> for screw-rolling machines