

SECTION B — PERFORMING OPERATIONS; TRANSPORTING

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

B21F WORKING OR PROCESSING OF WIRE (rolling of metal B21B; by drawing, auxiliary operations used in connection with metal-working without essentially removing material B21C; bundling articles B65B 13/00)

Subclass index

WIRE WORKING CHARACTERISED BY OPERATIONS PERFORMED

Bending, straightening; coiling; twisting.....	1/00, 3/00, 7/00
Upsetting, straining.....	5/00, 9/00
Cutting, splitting, connecting.....	11/00, 13/00, 15/00
Articles jacketed or reinforced with wire.....	17/00
Coating of wire.....	19/00
Other treatments.....	99/00
Feeding wire into apparatus.....	23/00

WIRE WORKING CHARACTERISED BY THE PARTICULAR ARTICLES PRODUCED

Barbed wire;network, fencing, wire fabrics.....	25/00, 27/00-33/00
Springs, rings.....	35/00, 37/00
other articles.....	39/00-45/00

Wire working characterised by operations performed

1/00	Bending wire other than coiling; Straightening wire
1/02	• Straightening
1/04	• Undulating
1/06	• Bending wire-eyes
3/00	Coiling wire into particular forms
3/02	• helically
3/027	• • with extended ends formed in a special shape, e.g. for clothes-pegs
3/04	• • externally on a mandrel or the like
3/06	• • internally on a hollow form
3/08	• to flat spiral
3/10	• to spirals other than flat, e.g. conical
3/12	• of interconnected helical springs
5/00	Upsetting wire (in the manufacture of nails or pins B21G 3/12)
7/00	Twisting wire; Twisting wire together (for connections of limited size B21F 15/04)
9/00	Straining wire (straining prestressing wires for concrete E04G 21/12; connections or attachments adapted for straining F16G 11/00)
9/02	• by tools adapted also for making connections
11/00	Cutting wire (hand-held metal-shearing or metal-cutting devices B23D 29/00; hand cutting tools with two jaws which come into abutting contact B26B 17/00)
13/00	Splitting wire

15/00	Connecting wire to wire or other metallic material or objects; Connecting parts by means of wire (tools for both straining and connecting B21F 9/00; jacketing or reinforcing B21F 17/00; manufacture of wire network B21F 27/00; in making bands B21F 43/00)
15/02	• wire with wire
15/04	• • without additional connecting elements or material, e.g. by twisting
15/06	• • with additional connecting elements or material
15/08	• • • making use of soldering or welding
15/10	• wire with sheet metal
17/00	Jacketing or reinforcing articles with wire (by winding B65H 54/00, B65H 81/00; by braiding D04C)
19/00	Metallic coating of wire (by extruding B21C 23/24; by soldering or welding, e.g. cladding or plating, B23K; by other non-mechanical means C23; electroplating C25D)
23/00	Feeding wire in wire-working machines or apparatus (applicable also to feeding rods or strips B21D 43/00)

Wire working characterised by the particular articles produced

25/00	Making barbed wire
27/00	Making wire network, i.e. wire nets (meshed-ring network B21F 31/00; in making bands B21F 43/00; using looms D03D)
27/02	• without additional connecting elements or material at crossings, e.g. connected by knitting
27/04	• • Manufacturing on machines with rotating blades or formers
27/06	• • Manufacturing on twister-gear machines

B21F

- 27/08 • with additional connecting elements or material at crossings
- 27/10 • • with soldered or welded crossings
- 27/12 • Making special types or portions of network by methods or means specially adapted therefor
- 27/14 • • Specially bending or deforming free wire ends
- 27/16 • • for spring mattresses
- 27/18 • • of meshed work for filters or sieves
- 27/20 • • of plaster-carrying network
- 27/22 • • of network for wire-reinforced glass or the like
- 29/00 Making fencing or like material made partly of wire** (B21F 25/00, B21F 27/00 take precedence) [2]
- 29/02 • comprising bars or the like connected by wires
- 31/00 Making meshed-ring network from wire**
- 33/00 Tools or devices specially designed for handling or processing wire fabrics or the like**
- 33/02 • Mounting of wire network on frames
- 33/04 • Connecting ends of helical springs for mattresses
- 35/00 Making springs from wire** (by coiling wire B21F 3/00; making resilient rings B21F 37/02)
- 35/02 • Bending or deforming ends of coil springs to special shape
- 35/04 • Making flat springs, e.g. sinus springs
- 37/00 Manufacture of rings from wire** (in chain making B21L; producing bead-rings or bead-cores for tyres B29D 30/48)
- 37/02 • or resilient rings, e.g. key-rings

- 37/04 • of washers (B21F 37/02 takes precedence)
 - 39/00 Making wheel spokes from wire**
 - 41/00 Making umbrella frames or members from wire**
 - 43/00 Making bands, e.g. bracelets, or wire** (making chains B21L; using looms D03D)
 - 45/00 Wire-working in the manufacture of other particular articles** (of pins, needles, nails, hairpins B21G; of chains B21L)
 - 45/02 • of clothes hangers
 - 45/04 • of elements, e.g. levers or links, for bottle stoppers
 - 45/06 • of flexible shafts or hollow conduits, e.g. for Bowden mechanisms
 - 45/08 • of loom heddles
 - 45/10 • of cards for fabric-napping machines
 - 45/12 • of fishing hooks
 - 45/14 • of end-pieces for laces or ropes
 - 45/16 • of devices for fastening or securing purposes
 - 45/18 • • of slide fastener elements
 - 45/20 • • of spring hooks; of spring safety hooks
 - 45/22 • • of paper fasteners or clips (staples B21F 45/24)
 - 45/24 • • of staples; of belt-fastening elements
 - 45/26 • • of buttons
 - 45/28 • • • of "patent-fastener" or press-button type
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- 99/00 Subject matter not provided for in other groups of this subclass [2009.01]**