

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	37/04	• of washers (B21F 37/02 takes precedence)
27/10	• • with soldered or welded crossings	39/00	Making wheel spokes from wire
27/12	• Making special types or portions of network by methods or means specially adapted therefor	41/00	Making umbrella frames or members from wire
27/14	• • Specially bending or deforming free wire ends	43/00	Making bands, e.g. bracelets, or wire (making chains B21L; using looms D03D)
27/16	• • for spring mattresses	45/00	Wire-working in the manufacture of other particular articles (of pins, needles, nails, hairpins B21G; of chains B21L)
27/18	• • of meshed work for filters or sieves	45/02	• of clothes hangers
27/20	• • of plaster-carrying network	45/04	• of elements, e.g. levers or links, for bottle stoppers
27/22	• • of network for wire-reinforced glass or the like	45/06	• of flexible shafts or hollow conduits, e.g. for Bowden mechanisms
29/00	Making fencing or like material made partly of wire (B21F 25/00, B21F 27/00 take precedence) [2]	45/08	• of loom heddles
29/02	• comprising bars or the like connected by wires	45/10	• of cards for fabric-napping machines
31/00	Making meshed-ring network from wire	45/12	• of fishing hooks
33/00	Tools or devices specially designed for handling or processing wire fabrics or the like	45/14	• of end-pieces for laces or ropes
33/02	• Mounting of wire network on frames	45/16	• of devices for fastening or securing purposes
33/04	• Connecting ends of helical springs for mattresses	45/18	• • of slide fastener elements
35/00	Making springs from wire (by coiling wire B21F 3/00; making resilient rings B21F 37/02)	45/20	• • of spring hooks; of spring safety hooks
35/02	• Bending or deforming ends of coil springs to special shape	45/22	• • of paper fasteners or clips (staples B21F 45/24)
35/04	• Making flat springs, e.g. sinus springs	45/24	• • of staples; of belt-fastening elements
37/00	Manufacture of rings from wire (in chain making B21L; producing bead-rings or bead-cores for tyres B29D 30/48)	45/26	• • of buttons
37/02	• or resilient rings, e.g. key-rings	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]		