

CLASS 245, WIRE FABRICS AND STRUCTURE**SECTION I - CLASS DEFINITION**

This class includes flexible all-wire or slat-and-wire fabric, wire blanks, panels and fabric structures not otherwise classifiable, and miscellaneous wire fabric joints in which at least one of the intersecting or connected elements is bent, looped, twisted, or coiled about the other or is subjected to an analogous wire-working operation to form or make the fabric or wherein wire is made an essential element of the invention. Fabrics, joints, or other structures wherein the elements are joined or secured together, for example, by tie-wires or ties, without bending or twisting the elements, or by weaving, welding, casting, nailing, and stapling and wherein wire is not made an essential element of the invention are excluded.

SECTION II - LINES WITH OTHER CLASSES AND WITHIN THIS CLASS

- (1) Note. Wire fabrics to which features or elements have been added which particularly adapt such fabrics for conveyor use, and which may be considered as more than an improved fabric structure, are classifiable with conveyors (see the References to Other Classes below).
- (2) Note. For composite fabrics comprising fabric or web structures in which a wire fabric is used for reinforcement or protection see Search Class notes below.
- (3) Note. Class 428, Stock Material or Miscellaneous Articles, subclasses 544+ is the residual locus for patents drawn to stock materials which are all metal or have adjacent metal components. As such, it provides for many rod structures analogous to wire structures and should be considered proper as a supplementary search field.

SECTION III - REFERENCES TO OTHER CLASSES**SEE OR SEARCH CLASS:**

- 5, Beds, subclasses 186 through 199 for structures specific thereto, as combinations with the frame, end springs, bottom springs, etc.

- 15, Brushing, Scrubbing, and General Cleaning, subclass 238, and indented subclasses for combinations of wire fabrics with frames, borders, or end strips, scrapers, etc.
- 52, Static Structures (e.g., Buildings), appropriate subclasses for residual structural metal work and units, particularly subclasses 343 and 660+ for a surface forming fabric or lattice open-work, e.g., a grating or grille.
- 65, Glass Manufacturing, subclasses 50+ for a process of making sheet glass and bonding the formed sheet to glass, subclasses 147+ for glassworking apparatus including means to feed and laminate wire fabric thereto, and subclass 154 for glass to metal bonding by glassworking apparatus.
- 66, Textiles: Knitting, subclass 169 for methods of forming meshes and ties.
- 101, Printing, subclass 113 (See (2) Note above)
- 138, Pipes and Tubular Conduits, subclasses 123+, 131, 133, 134+, 138 and 139 for flexible pipes having wire fabric in the wall make-up thereof. (See (2) Note above)
- 152, Resilient Tires and Wheels, subclass 202. (See (2) Note above).
- 198, Conveyors: Power-Driven, subclass 847 for an endless belt conveyor reinforced by wires and subclasses 848+ for an endless belt conveyor formed of wire fabric.
- 219, Electric Heating, subclasses 528+.
- 256, Fences, subclasses 32+ for structures specific to fences, as the combination with posts, stretchers, joints, or for ornamental fence fabrics.
- 313, Electric Lamp and Discharge Devices, subclasses 348+ for electrodes and shields for electric lamps and electric space discharge devices which are formed of wire fabrics.
- 403, Joints and Connections, subclasses 384+ for rod-like members joined side-to-side.
- 404, Road Structure, Process, or Apparatus, subclasses 134+ for reinforcement structure, per se.
- 428, Stock Material or Miscellaneous Articles, appropriate subclasses for a stock material product in the form of a single or plural layer web or sheet including a wire fabric as a component, see especially subclass 38 for a light transmissive mass which has an opaque frame or border therearound, which may be a wire fabric, (e.g., stained glass or wire reinforced glass), and subclass 608 for metallic stock which includes a layer or component comprising interengaged fibers. (See (2) Note above).

- 442, Fabric (Woven, Knitted, or Nonwoven Textile or Cloth, etc.), subclasses 1+ for an open mesh material. (See (2) Note above).
- 450, Foundation Garments, subclasses 43 and 44 for brassiere cups incorporating wire fabric. (See (2) Note above).
- 474, Endless Belt Power Transmission Systems or Components, particularly subclasses 237+ for a friction drive belt which may be formed from a wire fabric or have a wire fabric as a component thereof. (See (2) Note above).

(1) Note. Patches are in this subclass (2).

SEE OR SEARCH CLASS:

- 205, Electrolysis: Processes, Compositions Used Therein, and Methods of Preparing the Compositions, subclass 75, for processes of electroforming foraminous articles and products resulting from such processes.
- 428, Stock Material or Miscellaneous Articles, subclass 549 for composite stock having a component which contains metal particles and fiber, cellulose or asbestos, and subclass 596 for metallic stock which is apertured.

SUBCLASSES

1 MISCELLANEOUS:

This subclass is indented under the class definition. Miscellaneous wire articles not otherwise classifiable, fabric blanks, panels, or other structural fabric forms adapted to be used in the manufacture of chairs, lounges, carriages, go-carts, napkin rings, or other articles, or to be united to similar blanks for any purpose.

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Ties and clips:

This subclass is indented under subclass 2. Wire fabrics having the elements secured together by bending, coiling, or twisting and in which the tie-wires or clips are used for strengthening the joints of the intersecting wires.

1.5 TIRE-BEAD GROMMETS:

This subclass is indented under the class definition. Ring-shaped articles formed for the most part of wire adapted for reenforcing the beads of pneumatic tires and processes of making the same.

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Chains:

This subclass is indented under subclass 2. Chain-type fabrics having elements or links substantially alike and interlinked with those adjacent.

(1) Note. For endless bands made by a twisting or twining operation and of general application, see Search Notes below.

SEE OR SEARCH CLASS:

- 29, Metal Working, subclass 890.15 for a process of making a plumbing ferrule or reshaping same.
- 57, Textiles: Spinning, Twisting, and Twining, subclass 201 for endless bands made by a twisting or twining operation and of general application.
- 140, WireWorking, subclass 88.
- 152, Resilient Tires and Wheels, subclasses 450+ for tires embodying these elements.

SEE OR SEARCH CLASS:

- 59, Chain, Staple, and Horseshoe Making, subclasses 80 and 83.
- 63, Jewelry, subclass 4.
- 474, Endless Belt Power Transmission Systems or Components, particularly subclasses 237+ for a friction drive belt which may be formed from wire fabric or have a wire fabric as a component thereof.

2 FABRICS:

This subclass is indented under the class definition. Miscellaneous wire fabrics not otherwise classifiable.

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Interlocking loops:

This subclass is indented under subclass 2. Fabrics in which the longitudinal or cross wires are bent to form a series of loop elements, generally arranged in rows, which hook into, pass through, interlock, or otherwise engage and hold loops formed in an adjacent row or section.

- SEE OR SEARCH CLASS:
66, Textiles: Knitting, subclass 169 and indented subclasses for tying methods.
- 6 Coil:**
This subclass is indented under subclass 2. Fabrics comprising a plurality of connected helical coils, usually intercoiled together.
- SEE OR SEARCH CLASS:
5, Beds, subclass 189 for coil fabrics specific to bed-bottoms.
15, Brushing, Scrubbing, and General Cleaning, subclass 241 for coil fabrics specific to mats.
140, Wireworking, subclasses 92.3+ for processes and apparatus including intercoiling of helices with each other or with successive loops or apertures.
428, Stock Material or Miscellaneous Articles, subclass 592 for metallic stock which is helical or has a helical component.
- 7 Hexagonal mesh:**
This subclass is indented under subclass 2. Wire fabrics having substantially six-sided meshes.
- SEE OR SEARCH CLASS:
87, Textiles: Braiding, Netting, and Lace Making, subclass 3 and indented subclass and subclasses 8 to 12 for similar textile net fabrics.
- 8 Quadrangular mesh:**
This subclass is indented under subclass 2. Wire fabrics having four-sided meshes.
- SEE OR SEARCH THIS CLASS, SUBCLASS:
9, for link fabrics of quadrangular mesh.
- SEE OR SEARCH CLASS:
5, Beds, subclass 188.
87, Textiles: Braiding, Netting, and Lace Making, subclass 3 and indented subclass and subclasses 8 to 12, for similar textile net fabrics.
256, Fences, subclass 45 for structures, specific to fences.
- 9 Link:**
This subclass is indented under subclass 2. Wire fabrics in which a plurality of similar elements are united by dissimilar elements or links or in which the cross wires are composed of sections suitably connected together or to the longitudinal wires or strands.
- SEE OR SEARCH CLASS:
256, Fences, subclass 45.
- 10 Edges and seams:**
This subclass is indented under subclass 2. Edge, selvage, or seam structures of wire fabrics.
- 11 Slat and wire:**
This subclass is indented under subclass 2. Miscellaneous fabrics not otherwise classifiable, comprising slats and wires secured together by the mere bending, coiling or twisting of the wires about the slats.
- SEE OR SEARCH CLASS:
52, Static Structures (e.g., Buildings), subclass 343 and 660+ for a residual surface forming fabric or lattice openwork, e.g., a grating or grille.
217, Wooden Receptacles, subclass 44.
256, Fences, subclass 34.
313, Electric Lamp and Discharge Devices, subclass 350 for electrodes and shields for electric lamps and electric space discharge devices which are formed slat and wire fabrics.
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