

CLASS 79, BUTTON MAKING**SECTION I - LINES WITH OTHER CLASSES AND WITHIN THIS CLASS**

Class 162, Paper Making and Fiber Liberation, class includes machines and processes for making buttons or the parts thereof and assembling the same, including metallic, composition, pearl, etc., except such buttons as are formed of plastic material, including molten glass, which are formed in molds or are molded upon the shanks of the buttons, these being classified in Class 65, Glass Manufacturing or appropriate subclasses or Class 264, Plastic and Nonmetallic Article Shaping or Treating: Processes, or Class 425, Plastic Article or Earthenware Shaping or Treating: Apparatus, subclasses 117+, and except metallic buttons formed by casting, including casting upon shanks, classified in Class 164, Metal Founding.

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

- 221, Article Dispensing, appropriate subclasses for article dispensers (feeders) including button blank feeders, particularly subclasses 156+ for dispensers including orienting of articles, and subclasses 175+ for dispensers including stack forming.
- 408, Cutting by Use of Rotating Axially Moving Tool, appropriate subclasses for cutting of that class type to make a button.
- 451, Abrading, subclass 345 for a button cleaner of that class.

SUBCLASSES**1 MISCELLANEOUS:**

This subclass is indented under the class definition. Machines and processes for making buttons or the parts thereof and assembling such parts not otherwise classifiable.

2 SHANK BUTTONS:

This subclass is indented under the class definition. Machines and processes for making shank-buttons from sheet metal, leather, and compositions, including glass, papiermache, etc., which form the button-head and also form and secure a shank or eye to the button-head.

(1) Note. Machines for forming the shank merely are also classified in this subclass, inasmuch as they are usually, but fragments of the button-making machines.

(2) Note. Machines that merely mold buttons are classified in the appropriate molding or casting according to the material used.

SEE OR SEARCH CLASS:

- 65, Glass Manufacturing, appropriate subclasses, especially subclasses 47+ for a process of forming glass in a mold cavity combined with fusion bonding to a preform, subclasses 152+ for glass molding or shaping apparatus combined with fusion bonding means, and subclass 166 for glass-working apparatus including a perforator.
- 425, Plastic Article or Earthenware Shaping or Treating: Apparatus, subclasses 117+ for means molding plastic button-heads upon preformed backs or shanks and subclass 801 for a cross-reference digest on button makers.

3 METALLIC:

This subclass is indented under the class definition. Miscellaneous machines for making metallic buttons, usually by cutting the blank from a sheet of metal and bending, die-shaping, or spinning the blank into the form of a button.

(1) Note. Machines for merely cupping or die-shaping button-blanks are classified in Class 72, Metal Deforming, subclasses 343+.

4 Covered:

This subclass is indented under subclass 3. Machines for uniting the front, filling-blank, and back metallic buttons, including buttons having celluloid fronts, photographic buttons, etc.

- 5 Cloth:**
This subclass is indented under subclass 4. Machines for forming and assembling cloth-covered buttons. These machines include devices for cutting the cloth.
- 6 Surfacing and drilling:**
Combined machines for surfacing and drilling pearl or composition buttons.

SEE OR SEARCH CLASS:
144, Woodworking, subclass 14.
- 7 Surfacing:**
Machines and processes for turning, grinding, buffing, or polishing buttons in the process of their manufacture not classifiable in the following subclasses.

SEE OR SEARCH CLASS:
451, Abrading, for a process of or device for polishing a button attached to a garment.
- 8 Tool-sharpening:**
This subclass is indented under subclass 7. Machines having tool-sharpening mechanism in combination with turning or surfacing mechanism.
- 9 Multiple chuck:**
This subclass is indented under subclass 7. Machines for turning, grinding, or polishing the face of a button, which are provided with a plurality of chucks for clamping the button-blank.

SEE OR SEARCH THIS CLASS, SUBCLASS:
6,
- 10 Trimming:**
This subclass is indented under subclass 7. Machines and processes for smoothing and trimming the periphery of buttons or button-blanks.

SEE OR SEARCH CLASS:
144, Woodworking, subclasses 30 and 205.
470, Threaded, Headed Fastener, or Washer Making: Process and Apparatus, subclass 86 for bolt pointing machines.
- 11 Axially opposite:**
Machines for drilling buttons in which the button-blank is held in a clamp between axially aligned drills or pairs of drills which cut toward each other from opposite sides of the work.
- 14 Single chuck:**
Button-drilling machines having but a single drill-spindle and a single chuck for holding the button.
- 15 Blank-sawing:**
Machines for cutting and sizing buttons-blanks by means of a saw. These machines are mainly for producing buttons of equal thickness. This subclass does not include tubular saws.

SEE OR SEARCH CLASS:
144, Woodworking, subclass 20 for disk cutting and boring, subclasses 21+ for disk cutting.
- 16 Tubular saw:**
This subclass is indented under subclass 15. Machines for cutting button-blanks from the stock by means of a tubular saw.

SEE OR SEARCH CLASS:
144, Woodworking, subclass 20 for disk cutting and boring, subclass 23 for disk cutting by a rotary tubular cutter.
408, Cutting by Use of Rotating Axially Moving Tool, subclasses 204+ or a tubular saw of general use.
- 18 WORK SUPPORTS:**
This subclass is indented under the class definition. Clamps for supporting the button-blank while it is being operated upon by the surfacing or drilling mechanism.

(1) Note. This subclass does not include chucks carried by either the headstock or the tailstock of the lathe.

END