

**CPC****COOPERATIVE PATENT CLASSIFICATION****A44B****BUTTONS, PINS, BUCKLES, SLIDE FASTENERS, OR THE LIKE**( fastenings specially adapted for footwear [A43C](#) )**NOTE**

This subclass covers buckles or slide fasteners whether used as haberdashery or otherwise.

**WARNING**

The following IPC group is not used in the CPC scheme. Subject matter covered by this group is classified in the following CPC group:

- [A44B 1/16](#) covered by [A44B 1/14](#)

**A44B 1/00**

**Buttons** ( setting on garments [A41H 37/10](#) ; setting on footwear [A43D 100/08](#) ; making buttons: see the relevant groups in the classes for making articles from particular materials )

**A44B 1/02**

- . characterised by their material

**A44B 1/04**

- . Ornamental buttons

**A44B 1/06**

- . Assembling of buttons ( covering by braiding [D04D](#) )

**A44B 1/08**

- . Constructional characteristics

**A44B 1/10**

- .. washable

**A44B 1/12**

- .. covered by fabric

**A44B 1/123**

- ... { with a removable fabric covering }

**A44B 1/126**

- ... { Manufacture not otherwise provided for }

**A44B 1/14**

- .. with replaceable { or protective } coverings {( removable fabric coverings [A44B 1/123](#) ; sleeve-links concealing a sewed-on button [A44B 5/007](#) )}

**A44B 1/18**

- . adapted for special ways of fastening

**A44B 1/185**

- .. { with quick, thread-like, anchoring means avoiding the use of a separate needle and thread }

**A44B 1/20**

- .. attached by thread visible to the front {( [A44B 1/185](#) takes precedence )}

**A44B 1/22**

- .. attached by thread not visible to the front {( [A44B 1/185](#) takes precedence )}

**A44B 1/24**

- ... Eye-buttons

**A44B 1/26**

- .. with resilient shank

**A44B 1/28**

- .. with shank and counterpiece

**A44B 1/30**

- ... Screw-buttons

**A44B 1/32**

- ... Shank inserted into counterpiece and locked by sliding or rotating

**A44B 1/34**

- ... with snap-action counterpiece

**A44B 1/36**

- ... with counterpiece in the form of cotter, split-pin, or the like

- A44B 1/38 . . Clamping by spring action
- A44B 1/40 . . with helical wire-shank screwed into material
- A44B 1/42 . . with deformable prongs
- A44B 1/44 . . with deformable counterpiece

#### **A44B 3/00 Collar-studs**

- A44B 3/02 . completely rigid
- A44B 3/04 . with head tiltable as a whole
- A44B 3/06 . with head formed as two tiltable flaps
- A44B 3/08 . with head and base separable

#### **A44B 5/00 Sleeve-links**

- A44B 5/002 . { with head tiltable as a whole }
- A44B 5/005 . { formed as two tiltable flaps }
- A44B 5/007 . { concealing a sewed-on button ( buttons with replaceable coverings [A44B 1/14](#) ) }
- A44B 5/02 . with separable parts

#### **A44B 6/00 Retainers or tethers for neckties, cravats, neckerchiefs, or the like, e.g. tie-clips, spring clips with attached tie-tethers, woggles, pins with associated sheathing members tetherable to clothing ( tie-pins [A44B 9/08](#) ; decorative or ornamental aspects [A44C](#) )**

#### **A44B 7/00 Cards for buttons, collar-studs, or sleeve-links**

#### **A44B 9/00 Hat, scarf, or safety pins or the like ( decorative or ornamental aspect [A44C](#) ; hair pins [A45D 8/02](#) ; sewing needles [D05B 85/00](#) )**

- A44B 9/02 . Simple pins
- A44B 9/04 . . Ordinary pins
- A44B 9/06 . . Hat-pins ( other fastening means for head coverings [A42B 7/00](#) )
- A44B 9/08 . . Tie-pins ( pins with associated sheathing members tetherable to clothing [A44B 6/00](#) )
- A44B 9/10 . . Safety devices
- A44B 9/12 . Safety-pins
- A44B 9/125 . . { made of plastics }
- A44B 9/14 . . Ordinary safety-pins
- A44B 9/16 . . Brooches; Breast-pins

- A44B 9/18 . . Hinges; Locking devices
- A44B 9/20 . Attaching heads of glass or the like to pin shafts
- A44B 11/00 Buckles; Similar fasteners for interconnecting straps or the like, e.g. for safety belts**
- A44B 11/001 . { Ornamental buckles }
- A44B 11/003 . . { covered with cloth or other material; Making thereof }
- A44B 11/005 . { Buckles combined with other articles, e.g. with receptacles }
- A44B 11/006 . { Attachment of buckle to strap ( for safety buckles [A44B 11/2553](#) ) }
- A44B 11/008 . . { extensible }
- A44B 11/02 . frictionally engaging surface of straps
- A44B 11/04 . . without movable parts
- A44B 11/06 . . with clamping devices
- A44B 11/065 . . . { with strap tightening means ( [A44B 11/125](#) takes precedence; tighteners for securing of load on vehicles [B60P 7/0823](#) ; buckles attached to the end of a strap for bundling articles [B65D 63/16](#) ) }
- A44B 11/08 . . . roller displaceable in wedge-shaped slot
- A44B 11/10 . . . sliding wedge
- A44B 11/12 . . . turnable clamp
- A44B 11/125 . . . . { with strap tightening means }
- A44B 11/14 . . . . with snap-action
- A44B 11/16 . . Strap held by spring action
- A44B 11/18 . . Strap held by threading through linked rings
- A44B 11/20 . engaging holes or the like in strap
- A44B 11/22 . . Buckle with fixed prong
- A44B 11/223 . . . { fixed on a movable element }
- A44B 11/226 . . . { with cover plate }
- A44B 11/24 . . Buckle with movable prong
- A44B 11/25 . with two or more separable parts
- A44B 11/2503 . . { Safety buckles ( safety belts in vehicles [B60R 22/00](#) ; safety belts for aircraft [B64D 25/02](#) ) }
- A44B 11/2507 . . . { actuated by a push-button }
- A44B 11/2511 . . . . { acting perpendicularly to the main plane of the buckle, e.g. placed on the front face of the buckle }
- A44B 11/2515 . . . . { acting parallel to the main plane of the buckle and perpendicularly to the direction of the fastening action }
- A44B 11/2519 . . . . . { with two buttons acting in opposite directions }
- A44B 11/2523 . . . . { acting parallel to the main plane of the buckle and in the same direction as the fastening action }
- A44B 11/2526 . . . { with an operating lever }

- A44B 11/253 . . . . { acting in the same plane or in a plane parallel to the main plane of the buckle }
- A44B 11/2534 . . . { with the sliding motion of the buckle providing the opening or closing action }
- A44B 11/2538 . . . { with a pivoting bar retaining a loop of the strap itself }
- A44B 11/2542 . . . { actuated by a rotatable element, e.g. combined with other actuating means }
- A44B 11/2546 . . . { Details }
- A44B 11/2549 . . . . { Fastening of other buckle elements to the main buckle ( buckles with several tongues released by the same mechanism [A44B 11/2507](#) to [A44B 11/2542](#) ) }
- A44B 11/2553 . . . . { Attachment of buckle to strap }
- A44B 11/2557 . . . . . { with strap length adjustment }
- A44B 11/2561 . . . . { Tongue elements }
- A44B 11/2565 . . . . { Illuminated buckles }
- A44B 11/2569 . . . { Safety measures ( buckles for releasing in a vehicle emergency [B60R 22/32](#) ; control, alarm, or interlock systems for the correct application of safety belt buckles in vehicles [B60R 22/48](#) ) }
- A44B 11/2573 . . . . { Locking means preventing an unauthorised opening, e.g. by children }
- A44B 11/2576 . . . . . { Buckle covers }
- A44B 11/258 . . { fastening by superposing one part on top of the other ( [A44B 11/2503](#) takes precedence ) }
- A44B 11/2584 . . . { followed by sliding in the main plane of the buckle }
- A44B 11/2588 . . . { combined with one buckle element rotating or pivoting }
- A44B 11/2592 . . { fastening by sliding in the main plane or a plane parallel to the main plane of the buckle ( [A44B 11/2503](#) , [A44B 11/2584](#) take precedence ) }
- A44B 11/2596 . . . { the movement being transverse to the longitudinal direction of the strap or chain }
- A44B 11/26 . . with push-button fastenings {( [A44B 11/2507](#) takes precedence; press-button fasteners [A44B 17/00](#) ) }
- A44B 11/263 . . . { with a push-button acting perpendicularly to the main plane of the buckle }
- A44B 11/266 . . . { with at least one push-button acting parallel to the main plane of the buckle and perpendicularly to the direction of the fastening action }
- A44B 11/28 . . with hooks engaging end-pieces on the strap {( [A44B 11/2503](#) takes precedence ) }

**A44B 13/00****Hook or eye fasteners**

- A44B 13/0005 . { characterised by their material ( [A44B 13/0052](#) and [A44B 13/0058](#) take precedence ) }
- A44B 13/0011 . . { made of wire }
- A44B 13/0017 . . { made of metal plate }
- A44B 13/0023 . . { made of plastics }
- A44B 13/0029 . { characterised by their way of fastening to the support ( [A44B 13/0052](#) and [A44B 13/0058](#) take precedence ) }
- A44B 13/0035 . . { using prongs }
- A44B 13/0041 . . . { and a backing element on which prongs are bent over }
- A44B 13/0047 . . { welded or moulded }

- A44B 13/0052 . { Strips of hook or eye fasteners }
- A44B 13/0058 . { Eyelets or grommets }
- A44B 13/0064 .. { characterised by their material }
- A44B 13/007 ... { made of plastics }
- A44B 13/0076 .. { characterised by their way of fastening to the support }
- A44B 13/0082 ... { by riveting }
- A44B 13/0088 ... { by separable snap connection }
- A44B 13/0094 ... { welded or moulded }

- A44B 13/02 . with spring closure of hook

#### **A44B 15/00      Key-rings**

- A44B 15/002 . { Separable rings }
- A44B 15/005 . { Fobs }
- A44B 15/007 . { Openers }

#### **A44B 17/00      Press-button or snap fasteners**

- A44B 17/0005 . { Fastening of press-button fasteners ( [A44B 17/0017](#) and [A44B 17/0035](#) take precedence ) }
- A44B 17/0011 . { Press-button fasteners in which the elastic retaining action is obtained by a spring working in the plane of the fastener }
- A44B 17/0017 .. { Their fastening }
- A44B 17/0023 . { Press-button fasteners in which the elastic retaining action is obtained by the own elasticity of the material constituting the fastener }
- A44B 17/0029 . { Press-button fasteners made of plastics }
- A44B 17/0035 .. { Their fastening }
- A44B 17/0041 . { Press-button fasteners consisting of two parts ( [A44B 17/0029](#) takes precedence ) }
- A44B 17/0047 . { Press-button fasteners consisting of three parts ( [A44B 17/0029](#) takes precedence ) }
- A44B 17/0052 . { Press-button fasteners consisting of four parts ( [A44B 17/0029](#) takes precedence ) }
- A44B 17/0058 . { Strips of press-button fasteners }
- A44B 17/0064 . { Details }
- A44B 17/007 .. { Stud-member }
- A44B 17/0076 .. { Socket member }
- A44B 17/0082 .. { Decoration }

- A44B 17/0088 .. { made from sheet metal }
- A44B 17/0094 .. { made from solid metal }

**A44B 18/00****Fasteners of the touch-and-close type; Making such fasteners ( [making pile fabrics D03](#) , [D04](#) )**

- A44B 18/0003 . { Fastener constructions ( [A44B 18/0023](#) , [A44B 18/0046](#) take precedence )}
- A44B 18/0007 .. { in which each part has similar elements }
- A44B 18/0011 .. { Female or loop elements ( [A44B 18/0007](#) takes precedence )}
- A44B 18/0015 .. { Male or hook elements ( [A44B 18/0007](#) takes precedence )}
- A44B 18/0019 ... { of a mushroom type }
  
- A44B 18/0023 . { Woven or knitted fasteners }
- A44B 18/0026 .. { Devices for cutting loops into hooks ( [cutting pile loops D06C 13/08](#) )}
- A44B 18/003 .. { in which each part has similar elements }
- A44B 18/0034 .. { Female or loop elements ( [A44B 18/003](#) takes precedence )}
- A44B 18/0038 .. { Male or hook elements ( [A44B 18/003](#) takes precedence )}
- A44B 18/0042 ... { of a mushroom type }
  
- A44B 18/0046 . { Fasteners made integrally of plastics }
- A44B 18/0049 .. { obtained by moulding processes ( [compression moulding or articles of indefinite length characterised by the shape of the surface B29C 43/222](#) ; [screen moulding B29C 67/08](#) )}
- A44B 18/0053 .. { in which each part has similar elements }
- A44B 18/0057 .. { Female or loop elements ( [A44B 18/0053](#) takes precedence )}
- A44B 18/0061 .. { Male or hook elements ( [A44B 18/0053](#) takes precedence )}
- A44B 18/0065 ... { of a mushroom type }
  
- A44B 18/0069 . { Details }
- A44B 18/0073 .. { Attaching means }
- A44B 18/0076 .. { Adaptations for being fixed to a moulded article during moulding }
- A44B 18/008 .. { Hooks or loops provided with means to reinforce the attachment, e.g. by adhesive means ( [tab fastener elements for absorbent pads combining adhesive and mechanical fastening A61F 13/581](#) )}
  
- A44B 18/0084 .. { Double-sided }
- A44B 18/0088 .. { Mixed male and female members }
- A44B 18/0092 .. { flame retardant }
- A44B 18/0096 .. { Shape memory materials }

**A44B 19/00****Slide fasteners**

- A44B 19/02 . with a series of separate interlocking members secured to each stringer tape
- A44B 19/04 .. { Stringers arranged edge to edge when fastened, e.g. [abutting stringers](#) }
- A44B 19/06 ... with substantially rectangular members having interlocking projections and pieces

- A44B 19/08      ..      Stringers arranged side-by-side when fastened, e.g. at least partially superposed stringers
- A44B 19/10      .      with a one-piece interlocking member on each stringer tape
- A44B 19/12      ..      Interlocking member in the shape of a continuous helix
- A44B 19/14      ..      Interlocking member formed by a profiled or castellated edge
- A44B 19/16      ..      interlocking member having uniform section throughout the length of the stringer { ( for sacks or bags [B65D 33/2508](#) ) }
- A44B 19/18      .      with a third member or members, other than the slider, connected to the edges of adjacent stringers when closed, e.g. third member moved into position by a slider
- A44B 19/20      ..      the third member being embraced by the stringers
- A44B 19/22      ..      the third member embracing the stringers
- A44B 19/24      .      Details
- A44B 19/26      ..      Sliders
- A44B 19/262      ...      { Pull members; Ornamental attachments for sliders }
- A44B 19/265      ...      { with means for preventing the accidental intrusion of material into the slider body, e.g. with shield or guard }
- A44B 19/267      ...      { for slide fasteners with edges of stringers having uniform section throughout the length thereof ( for sacks or bags [B65D 33/2591](#) ) }
- A44B 19/28      ...      constructed to be removable from at least one stringer; { Sliders with movable parts to permit releasing of the slider in the event of jamming or obstruction }
- A44B 19/285      ....      { Tools for opening or closing slide fasteners }
- A44B 19/30      ...      with means for locking in position
- A44B 19/301      ....      { at the end of their upward travel with any suitable device, e.g. pull member combined with a press-button, a hook, a key-operated lock }
- A44B 19/303      ....      { Self-locking sliders, e.g. slider body provided with locking projection or groove, friction means }
- A44B 19/305      ....      { in the form of a locking prong protuding from the pull member }
- A44B 19/306      ....      { in the form of a locking spring member actuated by the pull member }
- A44B 19/308      ....      { in the form of a spring-actuated locking member actuated by the pull member }
- A44B 19/32      ..      Means for making slide fasteners gas or watertight
- A44B 19/34      ..      Stringer tapes ( [A44B 19/40](#) takes precedence ); Flaps secured to stringers for covering the interlocking members ( [A44B 19/32](#) takes precedence; { setting slide or glide fastener elements on garments [A41H 37/06](#) } )
- A44B 19/343      ...      { Knitted stringer tapes }
- A44B 19/346      ...      { Woven stringer tapes ( weaving of tapes [D03D 1/00](#) ) }
- A44B 19/36      ..      Means for permanently uniting the stringers at the end; Means for stopping movement of slider at the end
- A44B 19/38      ..      Means at the end of stringer by which the slider can be freed from one stringer, e.g. stringers can be completely separated from each other
- A44B 19/382      ...      { "Two-way" or "double-acting" separable slide fasteners }
- A44B 19/384      ...      { Separable slide fasteners with quick opening devices }
- A44B 19/386      ....      { Top end stop means for quick opening slide fasteners }
- A44B 19/388      ....      { Bottom end stop means for quick opening slide fasteners }

- A44B 19/40      ..      Connection of separate, or one-piece, interlocking members to stringer tapes;  
Reinforcing such connections, e.g. by stitching
- A44B 19/403      ...      { Connection of separate interlocking members }
- A44B 19/406      ...      { Connection of one-piece interlocking members }
  
- A44B 19/42      .      Making by processes not fully provided for in one other class, e.g. [B21D 53/50](#) ,  
[B21F 45/18](#) , [B22D 17/16](#) , [B29D 5/00](#) {( attaching closure devices, e.g. slide  
fasteners, to bags [B31B 19/00](#) ; making package opening by applying or incorporating  
profile strips, e.g. for reclosable bags [B65B 61/188](#) )}
- A44B 19/44      ..      Securing metal interlocking members to ready-made stringer tapes ( making metal  
slide fastener parts combined with attaching [B21D 53/52](#) )
- A44B 19/46      ...      Securing separate interlocking members
- A44B 19/48      ....      Arranging interlocking members before securing ( article handling devices  
associated with conveyers in general [B65G 47/00](#) , e.g. [B65G 47/14](#) )
- A44B 19/50      ...      Securing one-piece interlocking members
- A44B 19/52      ..      Securing the interlocking members to stringer tapes while making the latter
- A44B 19/54      ...      while weaving the stringer tapes
- A44B 19/56      ...      while knitting the stringer tapes
- A44B 19/58      ..      Removing interlocking members to produce gaps
- A44B 19/60      ..      Applying end stops upon stringer tapes
- A44B 19/62      ..      Assembling sliders in position on stringer tapes
- A44B 19/64      ...      Slider holders for assemblage of slide fasteners
  
- A44B 99/00      Subject matter not provided for in other groups of this subclass**
  
- A44B 99/005      .      { Turn-button fasteners }