

**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**

A44B 3/02

A44B 3/04

A44B 3/06

A44B 3/08

**Collar-studs**

- . completely rigid
- . with head tiltable as a whole
- . with head formed as two tiltable flaps
- . with head and base separable

**A44B 5/00**

A44B 5/002

A44B 5/005

A44B 5/007

A44B 5/02

**Sleeve-links**

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

A44B 9/04

A44B 9/06

A44B 9/08

A44B 9/10

A44B 9/12

A44B 9/125

A44B 9/14

A44B 9/16

A44B 9/18

A44B 9/20

- . Simple pins
  - . . Ordinary pins
  - . . Hat-pins (other fastening means for head coverings [A42B 7/00](#))
  - . . Tie-pins (pins with associated sheathing members tetherable to clothing [A44B 6/00](#))
- . . Safety devices
- . Safety-pins
  - . . {made of plastics}
  - . . Ordinary safety-pins
  - . . Brooches; Breast-pins
  - . . Hinges; Locking devices
- . 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

A44B 11/003

A44B 11/005

A44B 11/006

A44B 11/008

A44B 11/02

A44B 11/04

- . {Ornamental buckles}
- . . {covered with cloth or other material; Making thereof}
- . {Buckles combined with other articles, e.g. with receptacles}
- . {Attachment of buckle to strap (for safety buckles [A44B 11/2553](#))}
- . . {extensible}
- . frictionally engaging surface of straps
  - . . without movable parts

A44B 11/06	• • with clamping devices
A44B 11/065	• • • {with strap tightening means ( <a href="#">A44B 11/125</a> takes precedence; tighteners for securing of load on vehicles <a href="#">B60P 7/0823</a> ; buckles attached to the end of a strap for bundling articles <a href="#">B65D 63/16</a> )}
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 <a href="#">B60R 22/00</a> ; safety belts for aircraft <a href="#">B64D 25/02</a> )}
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 <a href="#">A44B 11/2507</a> to <a href="#">A44B 11/2542</a> )}
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}