

**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( <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}