

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](#)

1/00	Buttons (setting on garments A41H 37/10 ; setting on footwear A43D 100/08 ; making buttons: <u>see the relevant groups in the classes for making articles from particular materials</u>)	5/02	• with separable parts
1/02	• characterised by their material	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)
1/04	• Ornamental buttons	7/00	Cards for buttons, collar-studs, or sleeve-links
1/06	• Assembling of buttons (<u>covering by braiding D04D</u>)	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)
1/08	• Constructional characteristics	9/02	• Simple pins
1/10	• . washable	9/04	• . Ordinary pins
1/12	• . covered by fabric	9/06	• . Hat-pins (other fastening means for head coverings A42B 7/00)
1/123	• . . {with a removable fabric covering}	9/08	• . Tie-pins (pins with associated sheathing members tetherable to clothing A44B 6/00)
1/126	• . . {Manufacture not otherwise provided for}	9/10	• . Safety devices
1/14	• . with replaceable {or protective} coverings {(removable fabric coverings A44B 1/123 ; sleeve-links concealing a sewed-on button A44B 5/007)}	9/12	• Safety-pins
1/18	• adapted for special ways of fastening	9/125	• . {made of plastics}
1/185	• . {with quick, thread-like, anchoring means avoiding the use of a separate needle and thread}	9/14	• . Ordinary safety-pins
1/20	• . attached by thread visible to the front {(A44B 1/185 takes precedence)}	9/16	• . Brooches; Breast-pins
1/22	• . attached by thread not visible to the front {(A44B 1/185 takes precedence)}	9/18	• . Hinges; Locking devices
1/24	• . . Eye-buttons	9/20	• Attaching heads of glass or the like to pin shafts
1/26	• . with resilient shank	11/00	Buckles; Similar fasteners for interconnecting straps or the like, e.g. for safety belts
1/28	• . with shank and counterpiece	11/001	• {Ornamental buckles}
1/30	• . . Screw-buttons	11/003	• . {covered with cloth or other material; Making thereof}
1/32	• . . Shank inserted into counterpiece and locked by sliding or rotating	11/005	• {Buckles combined with other articles, e.g. with receptacles}
1/34	• . . with snap-action counterpiece	11/006	• {Attachment of buckle to strap (for safety buckles A44B 11/2553)}
1/36	• . . with counterpiece in the form of cotter, split-pin, or the like	11/008	• . {extensible}
1/38	• . Clamping by spring action	11/02	• frictionally engaging surface of straps
1/40	• . with helical wire-shank screwed into material	11/04	• . without movable parts
1/42	• . with deformable prongs	11/06	• . with clamping devices
1/44	• . with deformable counterpiece	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)}
3/00	Collar-studs	11/08	• . . roller displaceable in wedge-shaped slot
3/02	• completely rigid	11/10	• . . sliding wedge
3/04	• with head tiltable as a whole	11/12	• . . turnable clamp
3/06	• with head formed as two tiltable flaps	11/125	• . . . {with strap tightening means}
3/08	• with head and base separable		
5/00	Sleeve-links		
5/002	• {with head tiltable as a whole}		
5/005	• {formed as two tiltable flaps}		
5/007	• {concealing a sewed-on button (buttons with replaceable coverings A44B 1/14)}		

- 11/14 with snap-action
- 11/16 . . Strap held by spring action
- 11/18 . . Strap held by threading through linked rings
- 11/20 . engaging holes or the like in strap
- 11/22 . . Buckle with fixed prong
- 11/223 . . . {fixed on a movable element}
- 11/226 . . . {with cover plate}
- 11/24 . . Buckle with movable prong
- 11/25 . with two or more separable parts
- 11/2503 . . {Safety buckles (safety belts in vehicles [B60R 22/00](#); safety belts for aircraft [B64D 25/02](#))}
- 11/2507 . . . {actuated by a push-button}
- 11/2511 {acting perpendicularly to the main plane of the buckle, e.g. placed on the front face of the buckle}
- 11/2515 {acting parallel to the main plane of the buckle and perpendicularly to the direction of the fastening action}
- 11/2519 {with two buttons acting in opposite directions}
- 11/2523 {acting parallel to the main plane of the buckle and in the same direction as the fastening action}
- 11/2526 . . . {with an operating lever}
- 11/253 {acting in the same plane or in a plane parallel to the main plane of the buckle}
- 11/2534 . . . {with the sliding motion of the buckle providing the opening or closing action}
- 11/2538 . . . {with a pivoting bar retaining a loop of the strap itself}
- 11/2542 . . . {actuated by a rotatable element, e.g. combined with other actuating means}
- 11/2546 . . . {Details}
- 11/2549 {Fastening of other buckle elements to the main buckle (buckles with several tongues released by the same mechanism [A44B 11/2507 - A44B 11/2542](#))}
- 11/2553 {Attachment of buckle to strap}
- 11/2557 {with strap length adjustment}
- 11/2561 {Tongue elements}
- 11/2565 {Illuminated buckles}
- 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](#))}
- 11/2573 {Locking means preventing an unauthorised opening, e.g. by children}
- 11/2576 {Buckle covers}
- 11/258 . . {fastening by superposing one part on top of the other ([A44B 11/2503](#) takes precedence)}
- 11/2584 . . . {followed by sliding in the main plane of the buckle}
- 11/2588 . . . {combined with one buckle element rotating or pivoting}
- 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)}
- 11/2596 . . . {the movement being transverse to the longitudinal direction of the strap or chain}
- 11/26 . . with push-button fastenings {([A44B 11/2507](#) takes precedence; press-button fasteners [A44B 17/00](#))}
- 11/263 . . . {with a push-button acting perpendicularly to the main plane of the buckle}
- 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}
- 11/28 . . with hooks engaging end-pieces on the strap {([A44B 11/2503](#) takes precedence)}
- 13/00 Hook or eye fasteners**
- 13/0005 . {characterised by their material ([A44B 13/0052](#) and [A44B 13/0058](#) take precedence)}
- 13/0011 . . {made of wire}
- 13/0017 . . {made of metal plate}
- 13/0023 . . {made of plastics}
- 13/0029 . {characterised by their way of fastening to the support ([A44B 13/0052](#) and [A44B 13/0058](#) take precedence)}
- 13/0035 . . {using prongs}
- 13/0041 . . . {and a backing element on which prongs are bent over}
- 13/0047 . . {welded or moulded}
- 13/0052 . {Strips of hook or eye fasteners}
- 13/0058 . {Eyelets or grommets}
- 13/0064 . . {characterised by their material}
- 13/007 . . . {made of plastics}
- 13/0076 . . {characterised by their way of fastening to the support}
- 13/0082 . . . {by riveting}
- 13/0088 . . . {by separable snap connection}
- 13/0094 . . . {welded or moulded}
- 13/02 . with spring closure of hook
- 15/00 Key-rings**
- 15/002 . {Separable rings}
- 15/005 . {Fobs}
- 15/007 . {Openers}
- 17/00 Press-button or snap fasteners**
- 17/0005 . {Fastening of press-button fasteners ([A44B 17/0017](#) and [A44B 17/0035](#) take precedence)}
- 17/0011 . {Press-button fasteners in which the elastic retaining action is obtained by a spring working in the plane of the fastener}
- 17/0017 . . {Their fastening}
- 17/0023 . {Press-button fasteners in which the elastic retaining action is obtained by the own elasticity of the material constituting the fastener}
- 17/0029 . {Press-button fasteners made of plastics}
- 17/0035 . . {Their fastening}
- 17/0041 . {Press-button fasteners consisting of two parts ([A44B 17/0029](#) takes precedence)}
- 17/0047 . {Press-button fasteners consisting of three parts ([A44B 17/0029](#) takes precedence)}
- 17/0052 . {Press-button fasteners consisting of four parts ([A44B 17/0029](#) takes precedence)}
- 17/0058 . {Strips of press-button fasteners}
- 17/0064 . {Details}
- 17/007 . . {Stud-member}
- 17/0076 . . {Socket member}
- 17/0082 . . {Decoration}
- 17/0088 . . {made from sheet metal}
- 17/0094 . . {made from solid metal}

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

- 18/0003 . {Fastener constructions ([A44B 18/0023](#), [A44B 18/0046](#) take precedence)}
- 18/0007 . . {in which each part has similar elements}
- 18/0011 . . {Female or loop elements ([A44B 18/0007](#) takes precedence)}
- 18/0015 . . {Male or hook elements ([A44B 18/0007](#) takes precedence)}
- 18/0019 . . . {of a mushroom type}
- 18/0023 . {Woven or knitted fasteners}
- 18/0026 . . {Devices for cutting loops into hooks ([cutting pile loops D06C 13/08](#))}
- 18/003 . . {in which each part has similar elements}
- 18/0034 . . {Female or loop elements ([A44B 18/003](#) takes precedence)}
- 18/0038 . . {Male or hook elements ([A44B 18/003](#) takes precedence)}
- 18/0042 . . . {of a mushroom type}
- 18/0046 . {Fasteners made integrally of plastics}
- 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](#))}
- 18/0053 . . {in which each part has similar elements}
- 18/0057 . . {Female or loop elements ([A44B 18/0053](#) takes precedence)}
- 18/0061 . . {Male or hook elements ([A44B 18/0053](#) takes precedence)}
- 18/0065 . . . {of a mushroom type}
- 18/0069 . {Details}
- 18/0073 . . {Attaching means}
- 18/0076 . . {Adaptations for being fixed to a moulded article during moulding}
- 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](#))}
- 18/0084 . . {Double-sided}
- 18/0088 . . {Mixed male and female members}
- 18/0092 . . {flame retardant}
- 18/0096 . . {Shape memory materials}

19/00 Slide fasteners

- 19/02 . with a series of separate interlocking members secured to each stringer tape
- 19/04 . . Stringers arranged edge-to-edge when fastened {, e.g. [abutting stringers](#)}
- 19/06 . . . with substantially rectangular members having interlocking projections and pieces
- 19/08 . . Stringers arranged side-by-side when fastened, e.g. at least partially superposed stringers
- 19/10 . with a one-piece interlocking member on each stringer tape
- 19/12 . . Interlocking member in the shape of a continuous helix
- 19/14 . . Interlocking member formed by a profiled or castellated edge
- 19/16 . . interlocking member having uniform section throughout the length of the stringer {(for [sacks or bags B65D 33/2508](#))}

- 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
- 19/20 . . the third member being embraced by the stringers
- 19/22 . . the third member embracing the stringers
- 19/24 . Details
- 19/26 . . Sliders
- 19/262 . . . {Pull members; Ornamental attachments for sliders}
- 19/265 . . . {with means for preventing the accidental intrusion of material into the slider body, e.g. with shield or guard}
- 19/267 . . . {for slide fasteners with edges of stringers having uniform section throughout the length thereof (for [sacks or bags B65D 33/2591](#))}
- 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}
- 19/285 {Tools for opening or closing slide fasteners}
- 19/30 . . . with means for locking in position
- 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}
- 19/303 {Self-locking sliders, e.g. slider body provided with locking projection or groove, friction means}
- 19/305 {in the form of a locking prong protruding from the pull member}
- 19/306 {in the form of a locking spring member actuated by the pull member}
- 19/308 {in the form of a spring-actuated locking member actuated by the pull member}
- 19/32 . . Means for making slide fasteners gas or watertight
- 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](#))}
- 19/343 . . . {Knitted stringer tapes}
- 19/346 . . . {Woven stringer tapes ([weaving of tapes D03D 1/00](#))}
- 19/36 . . Means for permanently uniting the stringers at the end; Means for stopping movement of slider at the end
- 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
- 19/382 . . . {"Two-way" or "double-acting" separable slide fasteners}
- 19/384 . . . {Separable slide fasteners with quick opening devices}
- 19/386 {Top end stop means for quick opening slide fasteners}
- 19/388 {Bottom end stop means for quick opening slide fasteners}
- 19/40 . . Connection of separate, or one-piece, interlocking members to stringer tapes; Reinforcing such connections, e.g. by stitching
- 19/403 . . . {Connection of separate interlocking members}

- 19/406 . . . {Connection of one-piece interlocking members}
- 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](#))}
- 19/44 . . Securing metal interlocking members to ready-made stringer tapes (making metal slide fastener parts combined with attaching [B21D 53/52](#))
- 19/46 . . . Securing separate interlocking members
- 19/48 Arranging interlocking members before securing (article handling devices associated with conveyors in general [B65G 47/00](#), e.g. [B65G 47/14](#))
- 19/50 . . . Securing one-piece interlocking members
- 19/52 . . Securing the interlocking members to stringer tapes while making the latter
- 19/54 . . . while weaving the stringer tapes
- 19/56 . . . while knitting the stringer tapes
- 19/58 . . Removing interlocking members to produce gaps
- 19/60 . . Applying end stops upon stringer tapes
- 19/62 . . Assembling sliders in position on stringer tapes
- 19/64 . . . Slider holders for assemblage of slide fasteners
- 99/00 Subject matter not provided for in other groups of this subclass**
- 99/005 . {Turn-button fasteners}