

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

[C2010.03]

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, [N : 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, [N : 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 33/25A2](#))}
- 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}