### CPC COOPERATIVE PATENT CLASSIFICATION

#### A HUMAN NECESSITIES

**PERSONAL OR DOMESTIC ARTICLES**

**A44 HABERDASHERY; JEWELLERY**

**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.

**WARNINGS**

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:
   - A44B 1/16 covered by A44B 1/14

2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/00</td>
<td>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)</td>
</tr>
<tr>
<td>1/02</td>
<td>. characterised by their material</td>
</tr>
<tr>
<td>1/04</td>
<td>. Ornamental buttons</td>
</tr>
<tr>
<td>1/06</td>
<td>. Assembling of buttons (covering by braiding D04D)</td>
</tr>
<tr>
<td>1/08</td>
<td>. Constructional characteristics</td>
</tr>
<tr>
<td>1/10</td>
<td>. washable</td>
</tr>
<tr>
<td>1/12</td>
<td>. covered by fabric</td>
</tr>
<tr>
<td>1/13</td>
<td>. [with a removable fabric covering]</td>
</tr>
<tr>
<td>1/16</td>
<td>. [Manufacture not otherwise provided for]</td>
</tr>
<tr>
<td>1/14</td>
<td>. with replaceable (or protective) coverings</td>
</tr>
<tr>
<td>1/18</td>
<td>. adapted for special ways of fastening</td>
</tr>
<tr>
<td>1/185</td>
<td>. [with quick, thread-like, anchoring means avoiding the use of a separate needle and thread]</td>
</tr>
<tr>
<td>1/20</td>
<td>. attached by thread visible to the front</td>
</tr>
<tr>
<td>1/22</td>
<td>. attached by thread not visible to the front</td>
</tr>
<tr>
<td>1/24</td>
<td>. Eye-buttons</td>
</tr>
<tr>
<td>1/26</td>
<td>. with resilient shank</td>
</tr>
<tr>
<td>1/28</td>
<td>. with shank and counterpiece</td>
</tr>
<tr>
<td>1/30</td>
<td>. Screw-buttons</td>
</tr>
<tr>
<td>1/32</td>
<td>. Shank inserted into counterpiece and locked by sliding or rotating</td>
</tr>
<tr>
<td>1/34</td>
<td>. with snap-action counterpiece</td>
</tr>
<tr>
<td>1/36</td>
<td>. with counterpiece in the form of cotter, split-pin, or the like</td>
</tr>
<tr>
<td>1/38</td>
<td>. Clamping by spring action</td>
</tr>
<tr>
<td>1/40</td>
<td>. with helical wire-shank screwed into material</td>
</tr>
<tr>
<td>1/42</td>
<td>. with deformable prongs</td>
</tr>
<tr>
<td>1/44</td>
<td>. with deformable counterpiece</td>
</tr>
<tr>
<td>3/00</td>
<td>Collar-studs</td>
</tr>
<tr>
<td>3/02</td>
<td>. completely rigid</td>
</tr>
<tr>
<td>3/04</td>
<td>. with head tiltable as a whole</td>
</tr>
<tr>
<td>3/06</td>
<td>. with head formed as two tiltable flaps</td>
</tr>
<tr>
<td>3/08</td>
<td>. with head and base separable</td>
</tr>
<tr>
<td>5/00</td>
<td>Sleeve-links</td>
</tr>
<tr>
<td>5/002</td>
<td>. [with head tiltable as a whole]</td>
</tr>
<tr>
<td>5/005</td>
<td>. [formed as two tiltable flaps]</td>
</tr>
<tr>
<td>5/007</td>
<td>. [concealing a sewed-on button (buttons with replaceable coverings A44B 1/14)]</td>
</tr>
<tr>
<td>5/02</td>
<td>. with separable parts</td>
</tr>
<tr>
<td>6/00</td>
<td>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)</td>
</tr>
<tr>
<td>7/00</td>
<td>Cards for buttons, collar-studs, or sleeve-links</td>
</tr>
<tr>
<td>9/00</td>
<td>Hat, scarf, or safety pins or the like (decorative or ornamental aspect A44C; hair pins A45D 8/02; sewing needles D05B 85/00)</td>
</tr>
<tr>
<td>9/02</td>
<td>. Simple pins</td>
</tr>
<tr>
<td>9/04</td>
<td>. Ordinary pins</td>
</tr>
<tr>
<td>9/06</td>
<td>. Hat-pins (other fastening means for head coverings A42B 7/00)</td>
</tr>
<tr>
<td>9/08</td>
<td>. Tie-pins (pins with associated sheathing members tetherable to clothing A44B 6/00)</td>
</tr>
<tr>
<td>9/10</td>
<td>. Safety devices</td>
</tr>
<tr>
<td>9/12</td>
<td>. Safety-pins</td>
</tr>
<tr>
<td>9/125</td>
<td>. [made of plastics]</td>
</tr>
<tr>
<td>9/14</td>
<td>. Ordinary safety-pins</td>
</tr>
<tr>
<td>9/16</td>
<td>. Brooches; Breast-pins</td>
</tr>
<tr>
<td>9/18</td>
<td>. Hinges; Locking devices</td>
</tr>
<tr>
<td>9/20</td>
<td>. Attaching heads of glass or the like to pin shafts</td>
</tr>
<tr>
<td>11/00</td>
<td>Buckles; Similar fasteners for interconnecting straps or the like, e.g. for safety belts</td>
</tr>
<tr>
<td>11/001</td>
<td>. [Ornamental buckles]</td>
</tr>
</tbody>
</table>
A44B

11/003 . . . (covered with cloth or other material; Making thereof)
11/005 . . . (Buckles combined with other articles, e.g. with receptacles)
11/006 . . . (Attachment of buckle to strap (for safety buckles A44B 11/2553))
11/008 . . . (extendible)
11/02 . . . frictionally engaging surface of straps
11/04 . . . without movable parts
11/06 . . . with clamping devices
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))
11/08 . . . roller displaceable in wedge-shaped slot
11/10 . . . sliding wedge
11/12 . . . turnable clamp
11/125 . . . (with strap tightening means)
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)
13/0092 . . . (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)
Fasteners of the touch-and-close type: Making such fasteners (making pile fabrics D03; D04)

Fastener constructions (A44B 18/0023, A44B 18/0046 take precedence)

in which each part has similar elements

(Female or loop elements (A44B 18/0007 takes precedence))

Male or hook elements (A44B 18/0007 takes precedence)

Male or hook elements (A44B 18/0007 takes precedence)

Male or hook elements (A44B 18/0003 takes precedence)

Male or hook elements (A44B 18/0003 takes precedence)

obtained by moulding processes (compression moulding or articles of indefinite length characterised by the shape of the surface B29C 48/222; screen moulding B29C 67/08)

Male or hook elements (A44B 18/0053 takes precedence)

Male or hook elements (A44B 18/0053 takes precedence)

Male or hook elements (A44B 18/0053 takes precedence)

Male or hook elements (A44B 18/0053 takes precedence)

Double-sided

Mixed male and female members

Flame retardant

Shape memory materials

Slide fasteners

with a series of separate interlocking members secured to each stringer tape

Strings arranged edge-to-edge when fastened [. e.g. abutting stringers]

with substantially rectangular members having interlocking projections and pieces

Strings arranged side-by-side when fastened, e.g. at least partially superposed stringers

with a one-piece interlocking member on each stringer tape

Interlocking member in the shape of a continuous helix

Interlocking member formed by a profiled or castellated edge

Interlocking member having uniform section throughout the length of the stringer [(for sacks or bags B65D 33/2508)]

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

the third member being embraced by the stringers

the third member embracing the stringers

Details

Sliders

[Pull members; Ornamental attachments for sliders]

[Tools for opening or closing slide fasteners]

with means for locking in position

[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]

Self-locking sliders, e.g. slider body provided with locking projection or groove, friction means

in the form of a locking prong protruding from the pull member

in the form of a locking spring member actuated by the pull member

in the form of a spring-actuated locking member actuated by the pull member

Means for making slide fasteners gas or watertight

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 A44H 37/06)

[Knitted stringer tapes]

[Woven stringer tapes (weaving of tapes D03D 1/00)]
Means for permanently uniting the stringers at the end; Means for stopping movement of slider at the end

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

"Two-way" or "double-acting" separable slide fasteners

Separable slide fasteners with quick opening devices

Top end stop means for quick opening slide fasteners

Bottom end stop means for quick opening slide fasteners

Connection of separate, or one-piece, interlocking members to stringer tapes; Reinforcing such connections, e.g. by stitching

Connection of separate interlocking members

Connection of one-piece interlocking members

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 70/813; making package opening by applying or incorporating profile strips, e.g. for re closable bags B65B 61/188)

Securing metal interlocking members to ready-made stringer tapes (making metal slide fastener parts combined with attaching B21D 53/52)

Securing separate interlocking members

Arranging interlocking members before securing (article handling devices associated with conveyors in general B65G 47/00, e.g. B65G 47/14)

Securing one-piece interlocking members

Securing the interlocking members to stringer tapes while making the latter

while weaving the stringer tapes

while knitting the stringer tapes

Removing interlocking members to produce gaps

Applying end stops upon stringer tapes

Assembling sliders in position on stringer tapes

Slider holders for assemblage of slide fasteners

Subject matter not provided for in other groups of this subclass

[Turn-button fasteners]