**CPC**  COOPERATIVE PATENT CLASSIFICATION

**B**  PERFORMING OPERATIONS; TRANSPORTING

(Notes omitted)

**PRINTING**

**B43**  WRITING OR DRAWING IMPLEMENTS; BUREAU ACCESSORIES

**B43K**  IMPLEMENTS FOR WRITING OR DRAWING (containers, casings or accessories for cosmetic substances, e.g. shaving soap, lipstick, make-up A45D 34/00, A45D 40/00)

**NOTE**

In this subclass, the following expression is used with the meaning indicated:

- “Writing implements” covers pens, pencils, crayons, chalks or like markers for writing or drawing

**WARNING**

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.

1/00  Nibs (continuously adjustable nibs B43K 17/00);

Writing-points (for indicating or recording apparatus G01D 15/16)

1/003  . [Capillary nibs]

1/006  . [Porous nibs (B43K 1/12 takes precedence)]

1/01  . with ink reservoirs, e.g. funnel-shaped

1/015  . [Funnel-shaped reservoirs]

1/02  . Split nibs

1/04  . with broadened tips

1/06  . Tubular writing-points

1/08  . with ball points; Balls or ball beds ([B43M 11/085 takes precedence])

1/082  . (Balls)

1/084  . (Ball beds)

1/086  . [with resilient supporting means for the ball, e.g. springs]

1/088  . [with an intermediate element between the resilient supporting means and the ball]

1/10  . Wire nibs

1/12  . Writing-points comprising fibres; Felt pads

3/00  Nib holders (holders for continuously adjustable nibs B43K 17/00)

3/005  . [Nib pinchers]

3/02  . with ink reservoirs

3/04  . with retractable nibs (mechanisms for retracting or locking nibs B43K 24/00)

5/00  Pens with ink reservoirs in holders, e.g. fountain-pens (nibs or writing-points with ink reservoirs B43K 1/01; ball-point pens B43K 7/00; pens with writing-points other than nibs or balls B43K 8/00; multiple-point writing implements B43K 27/00)

5/005  . [Pen barrels]

5/02  . Ink reservoirs

5/025  . [with multiple colours]

5/03  . specially adapted for concentrated ink, e.g. solid ink

5/04  . flexible

5/06  . with movable pistons [for withdrawing ink from an ink-receptacle (B43K 5/1818 takes precedence)]

5/08  . with ink-supplying valves ([B43K 5/145 takes precedence])

5/10  . with reserve ink chambers

5/12  . with ink-level inspection means

5/14  . Exchangeable ink cartridges

5/145  . {with valves}

5/16  . with retractable nibs (mechanisms for retracting or locking nibs B43K 24/00)

5/165  . {with detachable means, e.g. caps, co-operating with the writing element}

5/17  . with closing means ([B43K 5/165 takes precedence])

5/18  . Arrangements for feeding the ink to the nibs

5/1809  . [Feed bars]

5/1818  . [Mechanical feeding means, e.g. valves; Pumps]

5/1827  . {Valves}

5/1836  . {automatically closing}

5/1845  . {opened by actuation of the writing point (nibs with ball points with resilient supporting means, e.g. acting as a valve B43K 1/086)}

5/1854  . {mounted on ink-cartridges}

5/1863  . {opened by actuation of the rear-side of the pen}

5/1872  . {mounted on ink-cartridges}

5/1881  . {when the writing point points upwards}

5/189  . {Pumps}

7/00  Ball-point pens ([B43M 11/085 takes precedence]; multiple-point writing implements B43K 27/00)

7/005  . [Pen barrels]

7/01  . for low viscosity liquid ink

7/02  . Ink reservoirs; Ink cartridges ([B43K 7/01 takes precedence])

7/03  . pressurised, e.g. by gas

7/035  . the gas acting on a piston
8/00 Pens with writing-points other than nibs or nibs (brushes with reservoir for supplying substances A46B 11/00)

8/003 . (Pen barrels)
8/006 . (using a spraying system, e.g. airbrushes)
8/02 . with writing-points comprising fibres, felt, or similar porous or capillary material (B43K 8/22 takes precedence)
8/022 . (with writing-points comprising fibres)
8/024 . (with writing-points comprising felt)
8/026 . (with writing-points comprising capillary material)
8/028 . (Movable closure or gate)
8/03 . Ink reservoirs; Ink cartridges
8/04 . Arrangements for feeding ink to writing-points
8/06 . Wick feed from within reservoir to writing-points
8/08 . Wick separate from writing-points
8/10 . including compartment for soluble solid material
8/12 . writing-points or writing-point units being separable from reservoir
8/14 . with coreless tubular writing-points
8/143 . (Arrangements for feeding the ink to the writing-points)
8/146 . (Ink cartridges, ink reservoirs)
8/16 . with tubular writing-points comprising a movable cleaning element
8/165 . (Ink cartridges, ink reservoirs)
8/18 . Arrangements for feeding the ink to the writing-points
8/20 . with roller writing-points
8/22 . with electrically or magnetically activated writing-points
8/24 . characterised by the means for retracting writing-points

11/00 Filling devices (ink receptacles B43L 25/00)
11/005 . (for refilling capillary reservoirs)

13/00 Devices for removing nibs; Devices for cleaning nibs, e.g. by wiping (ink receptacles with pen-wiping means B43L 25/12)
13/005 . (for extracting nibs)
13/02 . for cleaning nibs, e.g. ink reservoirs therein

15/00 Assembling, finishing, or repairing pens
15/02 . Automatic machines

17/00 Continuously-adjustable nibs, e.g. for drawing-pens; Holders therefor (features common to fountain pens B43K 5/00)
17/005 . (continuously-adjustable nibs)
17/01 . Nibs with ink reservoirs
17/02 . Nibs having more than two legs

17/04 . Holders with arrangements for drawing dotted lines
19/00 Non-propelling pencils; Styles; Crayons; Chalks (batik pencils, cord-line chalkers B44D 3/00; writing-core compositions for pencils, crayon compositions, chalk compositions C09D 13/00)
19/003 . [Chalks]
19/006 . (with single short leads)
19/02 . Pencils with graphite; Coloured pencils
19/04 . Pencils with metallic writing-core
19/06 . the writing-core being made from substance wearing off during use
19/08 . the writing-core being made from wear-resistant substances
19/10 . equipped with ball-point (using ink B43K 1/08, B43L 7/00)
19/12 . Slate pencils
19/14 . Sheathings
19/145 . (with paper sheaths)
19/16 . Making non-propelling pencils (making slate-pencil writing-cores B29D)
19/18 . Making pencil writing-cores

21/00 Propelling pencils (projecting mechanisms for writing units B43K 24/00; multiple-point writing implements B43K 27/00)
21/003 . (with lead sections or lead cartridges)
21/006 . (Pencil-barrels)
21/02 . Writing-core feeding mechanisms
21/027 . with sliding tubelike writing-core guide
21/033 . with automatic feed by pressure during use of pencil
21/04 . with the writing-cores brought into position by gravity
21/045 . (with writing-cores automatically replaced from magazines)
21/06 . with the writing-cores fed by means sliding in longitudinally-slotted casings
21/08 . with the writing-cores fed by screws
21/085 . (with a threaded propelling shank)
21/10 . with separate writing-core remnants ejecting-bar
21/12 . with means preventing overwinding
21/14 . with writing-cores automatically replaced from magazines
21/16 . with stepwise feed of writing-cores
21/18 . having ratchet means
21/20 . with writing-cores automatically replaced from magazines
21/22 . Writing-cores gripping means, e.g. chucks
21/24 . Assembling, finishing, or repairing propelling pencils (making pencil writing-cores B43K 19/18)
21/26 . Automatic machines

23/00 Holders or connectors for writing implements; Means for protecting the writing-points (B43K 27/003 takes precedence)
23/001 . (Supporting means (bracelets with means for attaching a writing instrument or a memo pad A44C 50046))
23/002 . (with a fixed base)
23/004 . Holders specially adapted for assisting handicapped or disabled persons to write (B43L 15/00 takes precedence)
Mechanisms for selecting, projecting, retracting or locking writing units

24/02  . for locking a single writing unit in only fully projected or retracted positions
24/023  . [with a deformable barrel]
24/026  . [with a sleeve sliding on the forward end of the lead]
24/03  . operated by flicking or tilting
24/04  . operated by means sliding in longitudinally-slotted casings
24/06  . operated by turning means
24/08  . operated by push-buttons
24/082  . [placed on the side]
24/084  . [with saw-like or analogous cams]
24/086  . [with heart-shaped cams, balls]
24/088  . [with spreading spring means]
24/10  . for selecting, projecting and locking several writing units
24/12  . operated by means sliding in longitudinally-slotted casings
24/14  . operated by turning means
24/143  . [with two-way threads]
24/146  . [with cam control]
24/16  . operated by push-buttons
24/163  . [with one push-button for each writing unit]
24/166  . [selection by gravity with a pendulum or the like]
24/18  . and for feeding the writing-cores
24/183  . [with push-buttons]
24/186  . [with a revolving barrel]

Attaching writing implements to wearing apparel or objects involving constructional changes of the implements (protecting means, e.g. caps B43K 23/08; garment-holding devices A44B 99/00; fastening articles to wearing apparel A45F 5/02)

25/02  . Clips
25/022  . [attached to a pen cap]
25/024  . [detachably secured to the writing tool]
25/026  . [combined with other objects]
25/028  . [combined with means for propelling, projecting or retracting the writing unit]

Multiple-point writing implements, e.g. multicolour; Combinations of writing implements (B43K 29/00 takes precedence; mechanisms for selecting, projecting, retracting or locking writing units B43K 24/00; multiple writing devices with pantographic linkages B43L 13/12)

27/003  . [only one holder being used either for the pencil or the pen]
27/006  . [Pen or pencil barrels]
27/002  . Combinations of pens and pencils
27/004  . Combinations of pencils (writing-core feed mechanisms B43K 21/02)
27/008  . Combinations of pens
27/12  . [of ball-point pens]

Combinations of writing implements with other articles

29/001  . [with compasses]
29/002  . [with chance games, e.g. dices, lottery numbers]
29/003  . [with optical equipment, e.g. magnifier, viewer]
29/004  . [with more than one object]
29/005  . [with sound or noise making devices, e.g. radio, alarm]
29/007  . [with advertising means]
29/013  . [with stamping means]
29/02  . [with rubbers]
29/04  . [with blotters]
29/05  . [with applicators for eradicating- or correcting-liquid]
29/06  . [with sharpening devices (with erasing knives B43K 29/18; pocket knives with pencils B26B)]
29/08  . [with measuring, computing or indicating devices]
29/087  . [for indicating time, e.g. with calendars or watches]
29/0875  . . [with calendars]
29/093  . [with calculators]
29/10  . [with illuminating devices]
29/12  . [with memorandum appliances (with book covers B42D)]
29/16  . [with lighters]
29/18  . [with hand tools, e.g. erasing knives (with pocket knives B26B)]
29/185  . . [with cheque protectors]
29/20  . [with other articles having storage compartments (with lighters B43K 29/16; writing implements functioning as, or combined with, writing implement receptacles B43K 31/40)]
31/00  . Writing implement receptacles functioning as, or combined with, writing implements (other writing implement receptacles A45C 11/34, A45C 11/36)
31/005  . [Distributors for leads, cartridges and the like]