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}
7/007 . . . for low viscosity liquid ink
7/002 . . . Ink reservoirs; Ink cartridges (B43K 7/01 takes precedence)
7/003 . . . pressurised, e.g. by gas
7/0035 . . . the gas acting on a piston
8/00 Pens with writing-points other than nibs or balls (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 therefore (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]
19/002 . Pencils with graphite; Coloured pencils
19/004 . Pencils with metallic writing-core
19/006 . the writing-core being made from substance wearing off during use
19/008 . the writing-core being made from wear-resistant substances
19/10 . . equipped with ball-point (using ink B43K 1/08, B43K 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 50/046)]
23/002 . [with a fixed base]
23/004 . Holders specially adapted for assisting handicapped or disabled persons to write (B43K 15/00 takes precedence)


23/008 . Holders comprising finger grips (B43K 23/004, B43K 23/012 take precedence)

23/012 . Holders for attachment to finger tips (B43K 23/004 takes precedence)

23/016 . Holders for crayons or chalks (B43K 23/004 - B43K 23/012, B43K 23/02 take precedence)

23/02 . with means for preventing rolling (B43K 23/004 - B43K 23/012 take precedence)

23/04 . enabling the writing implement to be set upright

23/06 . Means for connecting two or more writing implements

23/08 . Protecting means, e.g. caps

23/10 . . for pens { (caps co-operating with retractable nibs B43K 5/165)

23/12 . . . with means for preventing retracting the writing unit

23/122 . . . [with means for preventing choking]

23/124 . . . [comprising an air passage]

23/126 . . . [with clips]

23/128 . . . [spring means]

24/00 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]

25/00 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]

27/00 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]

27/012 . . . Combinations of pens and pencils

27/004 . . . Combinations of pencils (writing-core feed mechanisms B43K 21/02)

27/008 . . . Combinations of pens

29/00 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 31/00)]

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]