

CPC**COOPERATIVE PATENT CLASSIFICATION****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

B43K 1/00

Nibs (continuously adjustable nibs [B43K 17/00](#)); **Writing-points** (for indicating or recording apparatus [G01D 15/16](#))

B43K 1/003

- . { Capillary nibs }

B43K 1/006

- . { Porous nibs ([B43K 1/12](#) takes precedence)}

B43K 1/01

- . with ink reservoirs, e.g. funnel-shaped

B43K 1/015

- .. { Funnel-shaped reservoirs }

B43K 1/02

- . Split nibs

B43K 1/04

- .. with broadened tips

B43K 1/06

- . Tubular writing-points

B43K 1/08

- . with ball points; Balls or ball beds {([B43M 11/085](#) takes precedence)}

B43K 1/082

- .. { Balls }

B43K 1/084

- .. { Ball beds }

B43K 1/086

- .. { with resilient supporting means for the ball, e.g. springs }

B43K 1/088

- ... { with an intermediate element between the resilient supporting means and the ball }

B43K 1/10

- . Wire nibs

B43K 1/12

- . Writing-points comprising fibres; Felt pads

B43K 3/00

Nib holders (holders for continuously adjustable nibs [B43K 17/00](#))

B43K 3/005

- . { Nib pinchers }

B43K 3/02

- . with ink guards

B43K 3/04

- . with retractable nibs (mechanisms for retracting or locking nibs [B43K 24/00](#))

B43K 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](#))

- B43K 5/005 . { Pen barrels }
- B43K 5/02 . Ink reservoirs
- B43K 5/025 .. { with multiple colours }
- B43K 5/03 .. specially adapted for concentrated ink, e.g. solid ink
- B43K 5/04 .. flexible
- B43K 5/06 .. with movable pistons { for withdrawing ink from an ink-receptacle ([B43K 5/1818](#) takes precedence)}
- B43K 5/08 ... with ink-supplying valves {([B43K 5/145](#) takes precedence)}
- B43K 5/10 .. with reserve ink chambers
- B43K 5/12 .. with ink-level inspection means
- B43K 5/14 .. Exchangeable ink cartridges
- B43K 5/145 ... { with valves }
- B43K 5/16 . with retractable nibs (mechanisms for retracting or locking nibs [B43K 24/00](#))
- B43K 5/165 .. { with detachable means, e.g. caps, co-operating with the writing element }
- B43K 5/17 .. with closing means {([B43K 5/165](#) takes precedence)}
- B43K 5/18 . Arrangements for feeding the ink to the nibs
- B43K 5/1809 .. { Feed bars }
- B43K 5/1818 .. { Mechanical feeding means, e.g. valves; Pumps }
- B43K 5/1827 ... { Valves }
- B43K 5/1836 { automatically closing }
- B43K 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](#))}
- B43K 5/1854 { mounted on ink-cartridges }
- B43K 5/1863 { opened by actuation of the rear-side of the pen }
- B43K 5/1872 { mounted on ink-cartridges }
- B43K 5/1881 { when the writing point points upwards }
- B43K 5/189 ... { Pumps }

B43K 7/00

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

- B43K 7/005 . { Pen barrels }
- B43K 7/01 . for low viscosity liquid ink
- B43K 7/02 . Ink reservoirs; Ink cartridges ([B43K 7/01](#) takes precedence)

- B43K 7/03 . . . pressurised, e.g. by gas
- B43K 7/035 the gas acting on a piston
- B43K 7/04 . . . Arrangements for filling the reservoirs, e.g. arrangements at the ball-point ends
- B43K 7/06 . . . Reservoirs with ink-level inspection means
- B43K 7/08 . . . Preventing leakage

- B43K 7/10 . . Arrangements for feeding ink to the ball points ([B43K 7/01](#) takes precedence)
- B43K 7/105 . . . { [Feed bars](#) }

- B43K 7/12 . . with retractable ball points ([mechanisms for retracting or locking ball points B43K 24/00](#))

- B43K 8/00** **Pens with writing-points other than nibs or balls** ([brushes with reservoir for supplying substances A46B 11/00](#))

- B43K 8/003 . . N: Pen barrels]

- B43K 8/006 . . { [using a spraying system, e.g. airbrushes](#) }

- B43K 8/02 . . with writing-points comprising fibres, felt, or similar porous or capillary material ([B43K 8/22](#) takes precedence)
- B43K 8/022 . . . { [with writing-points comprising fibres](#) }
- B43K 8/024 . . . { [with writing-points comprising felt](#) }
- B43K 8/026 . . . { [with writing-points comprising capillary material](#) }
- B43K 8/028 . . . { [Movable closure or gate](#) }
- B43K 8/03 . . . Ink reservoirs; Ink cartridges
- B43K 8/04 . . . Arrangements for feeding ink to writing-points
- B43K 8/06 Wick feed from within reservoir to writing-points
- B43K 8/08 Wick separate from writing-points
- B43K 8/10 including compartment for soluble solid material
- B43K 8/12 writing-points or writing-point units being separable from reservoir

- B43K 8/14 . . with coreless tubular writing-points
- B43K 8/143 . . . { [Arrangements for feeding the ink to the writing-points](#) }
- B43K 8/146 . . . { [Ink cartridges, ink reservoirs](#) }

- B43K 8/16 . . with tubular writing-points comprising a movable cleaning element
- B43K 8/165 . . . { [Ink cartridges, ink reservoirs](#) }
- B43K 8/18 . . . Arrangements for feeding the ink to the writing-points

- B43K 8/20 . . with roller writing-points

- B43K 8/22 . . with electrically or magnetically activated writing-points

- B43K 8/24 . . characterised by the means for retracting writing-points

B43K 11/00	Filling devices (ink receptacles B43L 25/00)
B43K 11/005	. { for refilling capillary reservoirs }
B43K 13/00	Devices for removing nibs; Devices for cleaning nibs, e.g. by wiping (ink receptacles with pen-wiping means B43L 25/12)
B43K 13/005	. { for extracting nibs }
B43K 13/02	. for cleaning nibs, e.g. ink reservoirs therein
B43K 15/00	Assembling, finishing, or repairing pens
B43K 15/02	. Automatic machines
B43K 17/00	Continuously-adjustable nibs, e.g. for drawing-pens; Holders therefor (features common to fountain pens B43K 5/00)
B43K 17/005	. { continuously-adjustable nibs }
B43K 17/01	. Nibs with ink reservoirs
B43K 17/02	. Nibs having more than two legs
B43K 17/04	. Holders with arrangements for drawing dotted lines
B43K 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)
B43K 19/003	. { Chalks }
B43K 19/006	. { with single short leads }
B43K 19/02	. Pencils with graphite; Coloured pencils
B43K 19/04	. Pencils with metallic writing-core
B43K 19/06	.. the writing-core being made from substance wearing off during use
B43K 19/08	.. the writing-core being made from wear-resistant substances
B43K 19/10	... equipped with ball-point (using ink B43K 1/08, B43K 7/00)
B43K 19/12	. Slate pencils
B43K 19/14	. Sheathings
B43K 19/145	.. { with paper sheaths }

- B43K 19/16 . Making non-propelling pencils ([making slate-pencil writing-cores B28D](#))
- B43K 19/18 .. Making pencil writing-cores

- B43K 21/00** **Propelling pencils** ([projecting mechanisms for writing units B43K 24/00](#); [multiple-point writing implements B43K 27/00](#))

- B43K 21/003 . { [with lead sections or lead cartridges](#) }
- B43K 21/006 . { [Pencil-barrels](#) }

- B43K 21/02 . Writing-core feeding mechanisms
- B43K 21/027 .. with sliding tubelike writing-core guide
- B43K 21/033 ... with automatic feed by pressure during use of pencil
- B43K 21/04 .. with the writing-cores brought into position by gravity
- B43K 21/045 ... { [with writing-cores automatically replaced from magazines](#) }
- B43K 21/06 .. with the writing-cores fed by means sliding in longitudinally-slotted casings
- B43K 21/08 .. with the writing-cores fed by screws
- B43K 21/085 ... { [with a threaded propelling shank](#) }
- B43K 21/10 ... with separate writing-core remnants ejecting-bar
- B43K 21/12 ... with means preventing over-winding
- B43K 21/14 ... with writing-cores automatically replaced from magazines
- B43K 21/16 .. with stepwise feed of writing-cores
- B43K 21/18 ... having ratchet means
- B43K 21/20 ... with writing-cores automatically replaced from magazines
- B43K 21/22 .. Writing-core gripping means, e.g. chucks

- B43K 21/24 . Assembling, finishing, or repairing propelling pencils ([making pencil writing-cores B43K 19/18](#))
- B43K 21/26 .. Automatic machines

- B43K 23/00** **Holders or connectors for writing implements; Means for protecting the writing-points** ([B43K 27/003 takes precedence](#))

- B43K 23/001 . { [Supporting means](#) ([bracelets with means for attaching a writing instrument or a memo pad A44C 5/0046](#)) }
- B43K 23/002 .. { [with a fixed base](#) }

- B43K 23/004 . Holders specially adapted for assisting handicapped or disabled persons to write ([B43L 15/00 takes precedence](#))

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

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

- B43K 23/016 . Holders for crayons or chalks ([B43K 23/004](#) to [B43K 23/012](#), [B43K 23/02](#) take precedence)
- B43K 23/02 . with means for preventing rolling ([B43K 23/004](#) to [B43K 23/012](#) take precedence)
- B43K 23/04 . . enabling the writing implement to be set upright
- B43K 23/06 . Means for connecting two or more writing implements
- B43K 23/08 . Protecting means, e.g. caps
- B43K 23/10 . . for pencils
- B43K 23/12 . . for pens {{caps co-operating with retractable nibs [B43K 5/165](#)}}
- B43K 23/122 . . . { with means for preventing choking }
- B43K 23/124 { comprising an air passage }
- B43K 23/126 . . . { with clips }
- B43K 23/128 . . . { with spring means }

B43K 24/00**Mechanisms for selecting, projecting, retracting or locking writing units**

- B43K 24/02 . for locking a single writing unit in only fully projected or retracted positions
- B43K 24/023 . . { with a deformable barrel }
- B43K 24/026 . . { with a sleeve sliding on the forward end of the lead }
- B43K 24/03 . . operated by flicking or tilting
- B43K 24/04 . . operated by means sliding in longitudinally-slotted casings
- B43K 24/06 . . operated by turning means
- B43K 24/08 . . operated by push-buttons
- B43K 24/082 . . . { placed on the side }
- B43K 24/084 . . . { with saw-like or analogous cams }
- B43K 24/086 . . . { with heart-shaped cams, balls }
- B43K 24/088 . . . { with spreading spring means }
- B43K 24/10 . for selecting, projecting and locking several writing units
- B43K 24/12 . . operating by means sliding in longitudinally-slotted casings
- B43K 24/14 . . operated by turning means
- B43K 24/143 . . . { with two-way threads }
- B43K 24/146 . . . { with cam control }
- B43K 24/16 . . operated by push-buttons
- B43K 24/163 . . . { with one push-button for each writing unit }
- B43K 24/166 . . . { selection by gravity with a pendulum or the like }
- B43K 24/18 . . and for feeding the writing-cores
- B43K 24/183 . . . { with push-buttons }
- B43K 24/186 . . . { with a revolving barrel }

B43K 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)
B43K 25/02	. Clips
B43K 25/022	. . { attached to a pen cap }
B43K 25/024	. . { detachably secured to the writing tool }
B43K 25/026	. . { combined with other objects }
B43K 25/028	. . { combined with means for propelling, projecting or retracting the writing unit }
B43K 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)
B43K 27/003	. { only one holder being used either for the pencil or the pen }
B43K 27/006	. { Pen or pencil barrels }
B43K 27/02	. Combinations of pens and pencils
B43K 27/04	. Combinations of pencils (writing-core feed mechanisms B43K 21/02)
B43K 27/08	. Combinations of pens
B43K 27/12	. . of ball-point pens
B43K 29/00	Combinations of writing implements with other articles
B43K 29/001	. { with compasses }
B43K 29/002	. { with chance games, e.g. dices, lottery numbers }
B43K 29/003	. { with optical equipment, e.g. magnifier, viewer }
B43K 29/004	. { with more than one object }
B43K 29/005	. { with sound or noise making devices, e.g. radio, alarm }
B43K 29/007	. with advertising means
B43K 29/013	. with stamping means
B43K 29/02	. with rubbers
B43K 29/04	. with blotters

- B43K 29/05 . with applicators for eradicating- or correcting-liquid
- B43K 29/06 . with sharpening devices (with erasing knives [B43K 29/18](#); pocket knives with pencils [B26B](#))
- B43K 29/08 . with measuring, computing or indicating devices
- B43K 29/087 . . for indicating time, e.g. with calendars or watches
- B43K 29/0875 . . . { with calendars }
- B43K 29/093 . . with calculators
- B43K 29/10 . with illuminating devices
- B43K 29/12 . with memorandum appliances (with book covers [B42D](#))
- B43K 29/16 . with lighters
- B43K 29/18 . with hand tools, e.g. erasing knives (with pocket knives [B26B](#))
- B43K 29/185 . . { with cheque protectors }
- B43K 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](#))
- B43K 31/00** **Writing implement receptacles functioning as, or combined with, writing implements** (other writing implement receptacles [A45C 11/34](#), [A45C 11/36](#))
- B43K 31/005 . { Distributors for leads, cartridges and the like }