

**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 21/00](#); 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 }