

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.

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| <p>1/00 Nibs (continuously adjustable nibs B43K 17/00);
Writing-points (for indicating or recording apparatus G01D 15/16)</p> <p>1/003 . {Capillary nibs}</p> <p>1/006 . {Porous nibs (B43K 1/12 takes precedence)}</p> <p>1/01 . with ink reservoirs, e.g. funnel-shaped</p> <p>1/015 . . {Funnel-shaped reservoirs}</p> <p>1/02 . Split nibs</p> <p>1/04 . . with broadened tips</p> <p>1/06 . Tubular writing-points</p> <p>1/08 . with ball points; Balls or ball beds {(B43M 11/085 takes precedence)}</p> <p>1/082 . . {Balls}</p> <p>1/084 . . {Ball beds}</p> <p>1/086 . . {with resilient supporting means for the ball, e.g. springs}</p> <p>1/088 . . . {with an intermediate element between the resilient supporting means and the ball}</p> <p>1/10 . Wire nibs</p> <p>1/12 . Writing-points comprising fibres; Felt pads</p> <p>3/00 Nib holders (holders for continuously adjustable nibs B43K 17/00)</p> <p>3/005 . {Nib pinchers}</p> <p>3/02 . with ink guards</p> <p>3/04 . with retractable nibs (mechanisms for retracting or locking nibs B43K 24/00)</p> <p>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)</p> <p>5/005 . {Pen barrels}</p> <p>5/02 . Ink reservoirs</p> <p>5/025 . . {with multiple colours}</p> <p>5/03 . . specially adapted for concentrated ink, e.g. solid ink</p> <p>5/04 . . flexible</p> | <p>5/06 . . with movable pistons {for withdrawing ink from an ink-receptacle (B43K 5/1818 takes precedence)}</p> <p>5/08 . . . with ink-supplying valves {(B43K 5/145 takes precedence)}</p> <p>5/10 . . with reserve ink chambers</p> <p>5/12 . . with ink-level inspection means</p> <p>5/14 . . Exchangeable ink cartridges</p> <p>5/145 . . . {with valves}</p> <p>5/16 . with retractable nibs (mechanisms for retracting or locking nibs B43K 24/00)</p> <p>5/165 . . {with detachable means, e.g. caps, co-operating with the writing element}</p> <p>5/17 . . with closing means {(B43K 5/165 takes precedence)}</p> <p>5/18 . Arrangements for feeding the ink to the nibs</p> <p>5/1809 . . {Feed bars}</p> <p>5/1818 . . {Mechanical feeding means, e.g. valves; Pumps}</p> <p>5/1827 . . . {Valves}</p> <p>5/1836 {automatically closing}</p> <p>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)}</p> <p>5/1854 {mounted on ink-cartridges}</p> <p>5/1863 {opened by actuation of the rear-side of the pen}</p> <p>5/1872 {mounted on ink-cartridges}</p> <p>5/1881 {when the writing point points upwards}</p> <p>5/189 . . . {Pumps}</p> <p>7/00 Ball-point pens {(B43M 11/085 takes precedence); multiple-point writing implements B43K 27/00}</p> <p>7/005 . {Pen barrels}</p> <p>7/01 . for low viscosity liquid ink</p> <p>7/02 . Ink reservoirs; Ink cartridges (B43K 7/01 takes precedence)</p> <p>7/03 . . pressurised, e.g. by gas</p> <p>7/035 . . . the gas acting on a piston</p> |
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- 7/04 . . Arrangements for filling the reservoirs, e.g. arrangements at the ball-point ends
- 7/06 . . Reservoirs with ink-level inspection means
- 7/08 . . Preventing leakage
- 7/10 . Arrangements for feeding ink to the ball points ([B43K 7/01](#) takes precedence)
- 7/105 . . {Feed bars}
- 7/12 . with retractable ball points ([mechanisms for retracting or locking ball points B43K 24/00](#))
- 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 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, 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 B28D](#))
 - 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 5/0046](#))}
 - 23/002 . . {with a fixed base}
 - 23/004 . Holders specially adapted for assisting handicapped or disabled persons to write ([B43L 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 pencils
- 23/12 . . for pens {(caps co-operating with retractable nibs [B43K 5/165](#))}
- 23/122 . . . {with means for preventing choking}
- 23/124 {comprising an air passage}
- 23/126 . . . {with clips}
- 23/128 . . . {with 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 . . operating 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}
- 27/02 . Combinations of pens and pencils
- 27/04 . Combinations of pencils (writing-core feed mechanisms [B43K 21/02](#))
- 27/08 . Combinations of pens
- 27/12 . . of ball-point 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}