

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

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| 1/00 | Nibs (continuously adjustable nibs B43K 17/00);
Writing-points (for indicating or recording apparatus G01D 15/16) | 5/10 | . . with reserve ink chambers |
| 1/003 | . {Capillary nibs} | 5/12 | . . with ink-level inspection means |
| 1/006 | . {Porous nibs (B43K 1/12 takes precedence)} | 5/14 | . . Exchangeable ink cartridges |
| 1/01 | . with ink reservoirs, e.g. funnel-shaped | 5/145 | . . . {with valves} |
| 1/015 | . . {Funnel-shaped reservoirs} | 5/16 | . with retractable nibs (mechanisms for retracting or locking nibs B43K 24/00) |
| 1/02 | . Split nibs | 5/165 | . . {with detachable means, e.g. caps, co-operating with the writing element} |
| 1/04 | . . with broadened tips | 5/17 | . . with closing means (B43K 5/165 takes precedence)} |
| 1/06 | . Tubular writing-points | 5/18 | . Arrangements for feeding the ink to the nibs |
| 1/08 | . with ball points; Balls or ball beds (B43M 11/085 takes precedence)} | 5/1809 | . . {Feed bars} |
| 1/082 | . . {Balls} | 5/1818 | . . {Mechanical feeding means, e.g. valves; Pumps} |
| 1/084 | . . {Ball beds} | 5/1827 | . . . {Valves} |
| 1/086 | . . {with resilient supporting means for the ball, e.g. springs} | 5/1836 | {automatically closing} |
| 1/088 | . . . {with an intermediate element between the resilient supporting means and the ball} | 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)} |
| 1/10 | . Wire nibs | 5/1854 | {mounted on ink-cartridges} |
| 1/12 | . Writing-points comprising fibres; Felt pads | 5/1863 | {opened by actuation of the rear-side of the pen} |
| 3/00 | Nib holders (holders for continuously adjustable nibs B43K 17/00) | 5/1872 | {mounted on ink-cartridges} |
| 3/005 | . {Nib pinchers} | 5/1881 | {when the writing point points upwards} |
| 3/02 | . with ink guards | 5/189 | . . . {Pumps} |
| 3/04 | . with retractable nibs (mechanisms for retracting or locking nibs B43K 24/00) | 7/00 | Ball-point pens (B43M 11/085 takes precedence); multiple-point writing implements B43K 27/00) |
| 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) | 7/005 | . {Pen barrels} |
| 5/005 | . {Pen barrels} | 7/01 | . for low viscosity liquid ink |
| 5/02 | . Ink reservoirs | 7/02 | . Ink reservoirs; Ink cartridges (B43K 7/01 takes precedence) |
| 5/025 | . . {with multiple colours} | 7/03 | . . pressurised, e.g. by gas |
| 5/03 | . . specially adapted for concentrated ink, e.g. solid ink | 7/035 | . . . the gas acting on a piston |
| 5/04 | . . flexible | 7/04 | . . Arrangements for filling the reservoirs, e.g. arrangements at the ball-point ends |
| 5/06 | . . with movable pistons {for withdrawing ink from an ink-receptacle (B43K 5/1818 takes precedence)} | 7/06 | . . Reservoirs with ink-level inspection means |
| 5/08 | . . . with ink-supplying valves (B43K 5/145 takes precedence)} | 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)	19/06	<ul style="list-style-type: none"> the writing-core being made from substance wearing off during use
8/003	<ul style="list-style-type: none"> {Pen barrels} 	19/08	<ul style="list-style-type: none"> the writing-core being made from wear-resistant substances
8/006	<ul style="list-style-type: none"> {using a spraying system, e.g. airbrushes} 	19/10	<ul style="list-style-type: none"> equipped with ball-point (using ink B43K 1/08, B43K 7/00)
8/02	<ul style="list-style-type: none"> with writing-points comprising fibres, felt, or similar porous or capillary material (B43K 8/22 takes precedence) 	19/12	<ul style="list-style-type: none"> Slate pencils
8/022	<ul style="list-style-type: none"> {with writing-points comprising fibres} 	19/14	<ul style="list-style-type: none"> Sheathings
8/024	<ul style="list-style-type: none"> {with writing-points comprising felt} 	19/145	<ul style="list-style-type: none"> {with paper sheaths}
8/026	<ul style="list-style-type: none"> {with writing-points comprising capillary material} 	19/16	<ul style="list-style-type: none"> Making non-propelling pencils (making slate-pencil writing-cores B28D)
8/028	<ul style="list-style-type: none"> {Movable closure or gate} 	19/18	<ul style="list-style-type: none"> Making pencil writing-cores
8/03	<ul style="list-style-type: none"> Ink reservoirs; Ink cartridges 	21/00	Propelling pencils (projecting mechanisms for writing units B43K 24/00; multiple-point writing implements B43K 27/00)
8/04	<ul style="list-style-type: none"> Arrangements for feeding ink to writing-points 	21/003	<ul style="list-style-type: none"> {with lead sections or lead cartridges}
8/06	<ul style="list-style-type: none"> Wick feed from within reservoir to writing-points 	21/006	<ul style="list-style-type: none"> {Pencil-barrels}
8/08	<ul style="list-style-type: none"> Wick separate from writing-points 	21/02	<ul style="list-style-type: none"> Writing-core feeding mechanisms
8/10	<ul style="list-style-type: none"> including compartment for soluble solid material 	21/027	<ul style="list-style-type: none"> with sliding tubelike writing-core guide
8/12	<ul style="list-style-type: none"> writing-points or writing-point units being separable from reservoir 	21/033	<ul style="list-style-type: none"> with automatic feed by pressure during use of pencil
8/14	<ul style="list-style-type: none"> with coreless tubular writing-points 	21/04	<ul style="list-style-type: none"> with the writing-cores brought into position by gravity
8/143	<ul style="list-style-type: none"> {Arrangements for feeding the ink to the writing-points} 	21/045	<ul style="list-style-type: none"> {with writing-cores automatically replaced from magazines}
8/146	<ul style="list-style-type: none"> {Ink cartridges, ink reservoirs} 	21/06	<ul style="list-style-type: none"> with the writing-cores fed by means sliding in longitudinally-slotted casings
8/16	<ul style="list-style-type: none"> with tubular writing-points comprising a movable cleaning element 	21/08	<ul style="list-style-type: none"> with the writing-cores fed by screws
8/165	<ul style="list-style-type: none"> {Ink cartridges, ink reservoirs} 	21/085	<ul style="list-style-type: none"> {with a threaded propelling shank}
8/18	<ul style="list-style-type: none"> Arrangements for feeding the ink to the writing-points 	21/10	<ul style="list-style-type: none"> with separate writing-core remnants ejecting-bar
8/20	<ul style="list-style-type: none"> with roller writing-points 	21/12	<ul style="list-style-type: none"> with means preventing overwinding
8/22	<ul style="list-style-type: none"> with electrically or magnetically activated writing-points 	21/14	<ul style="list-style-type: none"> with writing-cores automatically replaced from magazines
8/24	<ul style="list-style-type: none"> characterised by the means for retracting writing-points 	21/16	<ul style="list-style-type: none"> with stepwise feed of writing-cores
11/00	Filling devices (ink receptacles B43L 25/00)	21/18	<ul style="list-style-type: none"> having ratchet means
11/005	<ul style="list-style-type: none"> {for refilling capillary reservoirs} 	21/20	<ul style="list-style-type: none"> with writing-cores automatically replaced from magazines
13/00	Devices for removing nibs; Devices for cleaning nibs, e.g. by wiping (ink receptacles with pen-wiping means B43L 25/12)	21/22	<ul style="list-style-type: none"> Writing-cores gripping means, e.g. chucks
13/005	<ul style="list-style-type: none"> {for extracting nibs} 	21/24	<ul style="list-style-type: none"> Assembling, finishing, or repairing propelling pencils (making pencil writing-cores B43K 19/18)
13/02	<ul style="list-style-type: none"> for cleaning nibs, e.g. ink reservoirs therein 	21/26	<ul style="list-style-type: none"> Automatic machines
15/00	Assembling, finishing, or repairing pens	23/00	Holders or connectors for writing implements; Means for protecting the writing-points (B43K 27/003 takes precedence)
15/02	<ul style="list-style-type: none"> Automatic machines 	23/001	<ul style="list-style-type: none"> {Supporting means (bracelets with means for attaching a writing instrument or a memo pad A44C 5/0046)}
17/00	Continuously-adjustable nibs, e.g. for drawing-pens; Holders therefor (features common to fountain pens B43K 5/00)	23/002	<ul style="list-style-type: none"> {with a fixed base}
17/005	<ul style="list-style-type: none"> {continuously-adjustable nibs} 	23/004	<ul style="list-style-type: none"> Holders specially adapted for assisting handicapped or disabled persons to write (B43L 15/00 takes precedence)
17/01	<ul style="list-style-type: none"> Nibs with ink reservoirs 	23/008	<ul style="list-style-type: none"> Holders comprising finger grips (B43K 23/004, B43K 23/012 take precedence)
17/02	<ul style="list-style-type: none"> Nibs having more than two legs 	23/012	<ul style="list-style-type: none"> Holders for attachment to finger tips (B43K 23/004 takes precedence)
17/04	<ul style="list-style-type: none"> Holders with arrangements for drawing dotted lines 	23/016	<ul style="list-style-type: none"> Holders for crayons or chalks (B43K 23/004 - B43K 23/012, B43K 23/02 take precedence)
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)	23/02	<ul style="list-style-type: none"> with means for preventing rolling (B43K 23/004 - B43K 23/012 take precedence)
19/003	<ul style="list-style-type: none"> {Chalks} 	23/04	<ul style="list-style-type: none"> enabling the writing implement to be set upright
19/006	<ul style="list-style-type: none"> {with single short leads} 		
19/02	<ul style="list-style-type: none"> Pencils with graphite; Coloured pencils 		
19/04	<ul style="list-style-type: none"> Pencils with metallic writing-core 		

- 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}