

## ECLA EUROPEAN CLASSIFICATION

### A46B BRUSHES (handles not integral with brushware B25G)

[N: **WARNING** [C2012.05]

The following IPC groups are not used in the classification scheme. Subject matter covered by these groups is classified in the following groups:

[A46B11/02](#) covered by [A46B11/00](#) or [A46B11/00C2](#) or  
[A46B11/00C5](#) or [A46B11/00C6](#)  
[A46B11/04](#) covered by [A46B11/00](#) or [A46B11/00C4](#)

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#### A46B1/00 Brush bodies and bristles moulded as a unit

#### A46B3/00 Brushes characterised by the way in which the bristles are fixed or joined in or on the brush body or carrier ([machines or appliances therefor A46D](#))

- A46B3/00A . [N: Bristle carriers and bristles moulded as a unit (A46B1/00 takes precedence)]  
[N1204]
- A46B3/02 . by pitch, resin, cement, or other adhesives
- A46B3/04 . by mouldable materials, e.g. metals, cellulose derivatives, plastics ([A46B1/00 takes precedence](#))
- A46B3/06 . by welding together bristles made of metal wires or plastic materials
- A46B3/08 . by clamping
- A46B3/10 . . into rings or the like
- A46B3/12 . . . specially adapted for paint-brushes
- A46B3/14 . . . specially adapted for street-cleaning or rail-cleaning brooms
- A46B3/16 . by wires or other anchoring means, specially for U-shaped bristle tufts
- A46B3/18 . the bristles being fixed on or between belts or wires
- A46B3/20 . the bristles being fixed or joined in rubber bodies, e.g. in soft rubber
- A46B3/22 . rubber bristles being fixed in or on brush bodies

#### A46B5/00 Brush bodies; Handles integral with brushware

- A46B5/00A . [N: Additional brush head] [N1204]
- A46B5/00A2 . . [N: Brushes with two or more heads on the same end of a handle not intended for simultaneous use] [N1204]
- A46B5/00A4 . . [N: Brushes with two or more heads on the same end of a handle for simultaneous

- use, e.g. cooperating with each-other] [N1204]
- A46B5/00A6
  - . . [N: Brushes with heads on opposite sides or ends of a handle not intended for simultaneous use] [N1204]
- A46B5/00B
  - . [N: having articulations, joints or flexible portions]
- A46B5/00B1
  - . . [N: Brushes with elastically deformable heads that change shape during use] [N1204]
- A46B5/00B1A
  - . . . [N: Head made of soft plastics, rubber or rubber inserts in plastics matrix] [N1204]
- A46B5/00B2
  - . . [N: bending or stretching or collapsing ([A46B7/02A](#) takes precedence)] [C1205]
- A46B5/00B2A
  - . . . [N: Flexible resilience by plastic deformation of the material] [N1204]
- A46B5/00B2B
  - . . . [N: Mechanical joint or hinge, made up of several components] [N1204]
- A46B5/00B2C
  - . . . [N: Brushes articulated with more than one hinge] [N1204]
- A46B5/00B2D
  - . . . [N: Brushes with a telescopic or similarly moveable portion] [N1204]
- A46B5/00B6
  - . . [N: designed to allow relative positioning of the head to body] [M1205]
- A46B5/00B6A
  - . . . [N: Mechanical joint or hinge made up of several components] [N1204]
- A46B5/00B6B
  - . . . [N: being flexible or resilient during use] [M1205]
- A46B5/00B6B2
  - . . . . [N: Flexible resilience by elastic deformation of the material] [N1204]
- A46B5/00B6B4
  - . . . . [N: Inserts made of different material e.g. springs, plates] [N1204]
- A46B5/00B6C
  - . . . [N: being adjustable and stable during use]
- A46B5/00B6C2
  - . . . . [N: Adjustable and stable shaft or handle, e.g. generally in one piece] [N1204]
- A46B5/00B6C4
  - . . . . [N: Mechanical joint allowing adjustment in at least one plane] [N1204]
- A46B5/00B6C6
  - . . . . [N: Mechanical joint featuring a ball and socket] [N1204]
- A46B5/00B6D
  - . . . [N: promoting relative motion during use (bristle carriers moving during use [A46B7/06](#); driven brush bodies [A46B13/00](#))]
- A46B5/00C
  - . [N: Removable or interchangeable brush heads] [N1204]
- A46B5/02
  - . specially shaped for holding by the hand
- A46B5/02A
  - . . [N: Grips or handles specially adapted to conform to the hand] [N1204]
- A46B5/02B
  - . . [N: Grips or handles specially adapted for children] [N1204]
- A46B5/02C
  - . . [N: Grips or handles specially adapted for handicapped persons] [N1204]
- A46B5/02D
  - . . [N: Grips or handles having a nonslip section] [N1204]
- A46B5/02E
  - . . [N: Handles featuring an adjustable thumbrest] [N1204]
- A46B5/04
  - . shaped as gloves or finger-stalls [N: or other special holding ways e.g. by the tongue] [C1205]
- A46B5/06
  - . in the form of tapes, chains, flexible shafts, springs, [N: mats] or the like
- A46B7/00**
  - Bristle carriers arranged in the brush body**
- A46B7/02
  - . in an expanding or articulating manner
- A46B7/02A
  - . . [N: where the bristle carrier retracts or collapses, i.e. for storage]
- A46B7/02A2
  - . . . [N: where the bristle carrier collapses]

- A46B7/04 . interchangeably [N: removable bristle carriers]
- A46B7/04A . . [N: Clip or snap connection for bristle carriers] [N1204]
- A46B7/04B . . [N: Sliding connections for bristle carriers] [N1204]
- A46B7/04C . . [N: Threaded or screw connections for bristle carriers] [N1204]
- A46B7/04C2 . . . [N: Lock screw to secure carriers] [N1204]
  
- A46B7/06 . movably during use, [N: i.e. the normal brushing action causing movement (driven brush bodies A46B13/00)]
- A46B7/08 . . as a rotating disc
- A46B7/10 . . as a rotating cylinder
  
- A46B9/00 Arrangements of the bristles in the brush body**
  
- A46B9/00E . [N: where the brushing material is not made of bristles, e.g. sponge, rubber or paper] [N1206]
  
- A46B9/02 . Position or arrangement of bristles in relation to surface of the brush body, e.g. inclined, in rows, in groups
- A46B9/02A . . [N: arranged like in cosmetics brushes, e.g. mascara, nail polish, eye shadow] [N9701] [C1207]
- A46B9/02B . . [N: arranged like in hair brushes, e.g. hair treatment, dyeing, streaking] [N9701] [C1207]
- A46B9/02C . . [N: the bristles or the tufts being arranged in an angled position relative to each other] [N1204]
- A46B9/02D . . [N: where the surface of the brush body or carrier is not in one plane, e.g. not flat (A46B9/04E takes precedence)] [N1204]
- A46B9/02E . . [N: Bristle profile, the end of the bristle defining a surface other than a single plane or deviating from a simple geometric form, e.g. cylinder, sphere or cone]
- A46B9/04 . . [N: Arranged like in or] for toothbrushes [C1207]
- A46B9/04A . . . [N: specially adapted for cleaning a plurality of tooth surfaces simultaneously]
  
- A46B9/06 . Arrangement of mixed bristles or tufts of bristles, e.g. wire, fibre, rubber
- A46B9/06A . . [N: the bristles or the tufts being embedded in a different brushing material] [N1204]
  
- A46B9/08 . Supports or guides for bristles
- A46B9/10 . . Adjustable supports
- A46B9/12 . . Non-adjustable supports
  
- A46B11/00 Brushes with reservoir or other means for applying substances, e.g. paints, pastes, water (driven brush bodies A46B13/00; [N: massage apparatus with liquid delivery A61H7/00D, K61H201/04]; applying liquids or other fluent materials to surfaces by liquid carrying members in general, e.g. by pads B05C1/00, B05D1/28) [M1207]**
  
- A46B11/00A . [N: containing only one dose of substance, e.g. single-use toothbrushes]
- A46B11/00B . [N: specially adapted to feed the bristle upper surface]

- A46B11/00C . [N: with integral reservoirs ([A46B11/00A](#), [A46B11/00B](#) take precedence)]
- A46B11/00C4 . . [N: dispensing by gravity or by shaking]
- A46B11/00C5 . . [N: with pre-pressurised reservoirs, e.g. aerosols] [N1204]
- A46B11/00C6 . . [N: pressurised at moment of use manually or by powered means] [C1205]
- A46B11/00C6B . . . [N: with a permanently displaceable pressurising member that remain in position unless actuated, e.g. lead-screw or ratchet mechanisms, toothpaste tube twisting or rolling devices] [C1205]
- A46B11/00C6B2 . . . . [N: Lead-screw mechanisms]
- A46B11/00C6B2A . . . . . [N: Means for influencing rotation of the knob, e.g. ratchet, click mechanisms, one way clutches] [N1204]
- A46B11/00C6B4 . . . . [N: Means comprising a ratchet mechanism or equivalent for advancing the piston stepwise] [N1204]
- A46B11/00C6B6 . . . . [N: A piston or plunger advanced by direct pushing along the side of brush handle] [N1204]
- A46B11/00C6C . . . [N: Flexible or deformable reservoirs, e.g. resilient bulbs, compressible tubes] [C1205]
- A46B11/00C6C2 . . . . [N: where a tube is rolled up transverse to long axis] [N1204]
- A46B11/00C6C4 . . . . [N: where a tube is twisted along length] [N1204]
- A46B11/00C6C6 . . . . [N: Peristaltic pump] [N1204]
- A46B11/00C6D . . . [N: with a reciprocating piston or plunger acting as the pressurising means]
- A46B11/00C6E . . . [N: with a metered dosage] [N1204]
- A46B11/00C8 . . [N: Brushes where the reservoir is specifically intended for being refilled when empty] [N1204]
- A46B11/00C10 . . [N: Brushes where the reservoir is specifically intended for being replaced when empty] [N1204]
- A46B11/00C12 . . [N: Brushes where the reservoir is specifically intended for solid substance that dissolves gradually] [N1204]
  
- A46B11/00E . [N: Details]
- A46B11/00E1 . . [N: Means integral with the brush for opening, puncturing or piercing sealed reservoirs, e.g. on insertion] [N1204]
- A46B11/00E2 . . [N: Arrangements for preventing undesired leakage or dispensing]
- A46B11/00E2B . . . [N: Means for closing, sealing or controlling the flow using capillary action] [N1204]
- A46B11/00E2C . . . [N: Means for closing or sealing, e.g. toothpaste outlet when brush not in use thereby preventing leakage or drying out] [N1204]
- A46B11/00E2D . . . [N: Caps or covers for bristles] [N1204]
- A46B11/00E4 . . [N: Arrangements for catching drips or overflow]
- A46B11/00E6 . . [N: Indication of the level of the remaining fluid, e.g. through transparent walls] [N1204]
  
- A46B11/06 . connected to supply pipe [N: or to other external supply means ([A46B11/00A](#) and [A46B11/00B](#) take precedence)]
- A46B11/06B . . [N: by means of a supply pipe]
- A46B11/06B2 . . . [N: with means for introducing an additive, e.g. soap]
  
- A46B11/08 . with heating means

**A46B13/00****Brushes with driven brush bodies [N: or carriers] (power-driven toothbrushes [A61C17/16](#))**

- A46B13/00B . [N: Cylindrical or annular brush bodies]
- A46B13/00B2 . . [N: made up of a series of annular brush rings; Annular brush rings therefor]
- A46B13/00B4 . . [N: made up of a series of longitudinal strips or segments]
- A46B13/00B6 . . [N: formed by winding a strip tuft in a helice about the body]
  
- A46B13/00C . [N: Disc-shaped brush bodies]
  
- A46B13/02 . Power-driven [N: carriers]
- A46B13/02A . . [N: with means for inducing vibration to the bristles] [N1204]
- A46B13/02B . . [N: Brushes which automatically reverse direction of rotation, e.g. using gravity switches] [N1204]
- A46B13/04 . . with reservoir or other means for supplying substances
- A46B13/06 . . . with brush driven by the supplied medium
  
- A46B13/08 . hand-driven

**A46B15/00****Other brushes; Brushes with additional arrangements**

- A46B15/00B . [N: Arrangements for enhancing monitoring or controlling the brushing process]
- A46B15/00B2 . . [N: with a controlling means] [N1204]
- A46B15/00B2A . . . N: with a controlling brush technique device, e.g. stroke movement measuring device] [N1204]
- A46B15/00B2B . . . [N: with means for controlling duration, e.g. time of brushing] [N1204]
- A46B15/00B2C . . . [N: with means indicating the remaining useful life of brush] [N1204]
- A46B15/00B2D . . . [N: with a pressure controlling device] [N1204]
- A46B15/00B2E . . . [N: with a controlling temperature device] [N1204]
- A46B15/00B3 . . [N: with enhancing means] [N1204]
- A46B15/00B3A . . . [N: with antistatic properties] [N1204]
- A46B15/00B3B . . . [N: with a means for removing or creating static electricity] [N1204]
- A46B15/00B3C . . . [N: with an electrical means] [N1204]
- A46B15/00B3D . . . [N: with means generating ions] [N1204]
- A46B15/00B3E . . . [N: with a magnetic means] [N1204]
- A46B15/00B3F . . . [N: with an acoustic means] [N1204]
- A46B15/00B3G . . . [N: Enhancing with heat] [N1204]
- A46B15/00B3H . . . [N: with protrusion for polishing teeth] [N1204]
- A46B15/00B3J . . . [N: with a source of radiation, e.g. UV, IR, LASER, X-ray for irradiating the teeth and associated surfaces] [N1204]
- A46B15/00B3K . . . [N: with a lighting means, e.g. laser, bulb (A46B15/00B3J takes precedence)] [N1204]
- A46B15/00B5 . . [N: with signaling means] [N1204]
- A46B15/00B5A . . . [N: with an acoustic signaling means, e.g. noise] [N1204]

- A46B15/00B5A1 . . . . [N: with musical signaling means] [N1204]
- A46B15/00B5B . . . . [N: with light signaling means (A46B13/00B3J, A46B13/00B3K takes precedence)] [N1204]
- A46B15/00B5C . . . . [N: with vibrating signaling means] [N1204]
- A46B15/00B6 . . . [N: Drip collector, e.g. collecting the liquids dripping from the brush during a brushing process] [N1204]
- A46B15/00B7 . . . [N: Brushes fitted with ventilation means, e.g. with air buffers, air vents] [N1204]
- A46B15/00B8 . . . [N: Brushes fitted with ventilation suction, e.g. for removing dust (vacuum cleaner A47L7/00)] [N1204]
  
- A46B15/00C . . . [N: Brushes combined with other articles normally separate from the brushing process, e.g. combs, razors, mirrors]
- A46B15/00C1 . . . [N: Brushes fitted with a device for cleaning the ears] [N1204]
- A46B15/00C2 . . . [N: Brushes with a comb]
- A46B15/00C3 . . . [N: with a container for accessories, e.g. pills, polish, condoms, cells ([A46B11/00](#) takes precedence)] [N1204]
- A46B15/00C4 . . . [N: Brushes with a device for opening containers, e.g. shoes polish (A46B11/00E4 takes precedence)] [N1204]
- A46B15/00C5 . . . [N: Brush with an additional cutting tool, e.g. nail clippers, hair cutting] [N1204]
- A46B15/00C6 . . . [N: Brushes fitted with a drinking device, i.e. brushes with devices allowing drinking] [N1204]
- A46B15/00C7 . . . [N: Brushes fitted with a interdental devices, e.g. toothpick (K46B200/10G4 takes precedence)] [N1204]
- A46B15/00C7A . . . . [N: Toothbrushes with flossing arrangements (A61C15/04 takes precedence)] [N1204]
- A46B15/00C7B . . . . [N: Brushes with an arrangement for using the floss] [N1204]
- A46B15/00C8 . . . [N: Brushes with an additional massage device] [N1204]
- A46B15/00C9 . . . [N: Brushes fitted with a mirror] [N1204]
- A46B15/00C10 . . . [N: Brushes fitted with a razor or other shaving equipments] [N1204]
- A46B15/00C11 . . . [N: Brushes with a scraper, e.g. tongue scraper] [N1204]
- A46B15/00C12 . . . [N: Brushes with a shoehorn] [N1204]
  
- A46B15/00D . . . [N: Brushes provided with an identification, marking device or design] [N1204]
- A46B15/00E . . . [N: Brushes with decoration on or in the handle] [N1204]
- A46B15/00F . . . [N: Brushes with figurines such as animals on the handle] [N1204]
- A46B15/00G . . . [N: Container, e.g. bag or box with a collection of various devices] [N1204]
- A46B15/00H . . . [N: Magazines or sets of brushes components, e.g. plurality of brushes linked as a package] [N1204]
- A46B15/00J . . . [N: Brushes with a feature for storage after use] [N1204]
- A46B15/00K . . . [N: Self supporting, e.g. brushes that stand upright or in other particular ways] [N1204]

**A46B17/00****Accessories for brushes**

- A46B17/02 . Devices for holding brushes in use
- A46B17/04 . Protective covers for the bristles
- A46B17/06 . Devices for cleaning brushes after use
- A46B17/06A . . [N: Sterilising brushes; products integral with the brush for sterilising, e.g. tablets, rinse, disinfectant] [N1204]
- A46B17/08 . Other accessories, e.g. scrapers, rubber buffers for preventing damage to furniture