

ECLA EUROPEAN CLASSIFICATION

B05C

APPARATUS FOR APPLYING LIQUIDS OR OTHER FLUENT MATERIALS TO SURFACES, IN GENERAL (spraying apparatus, atomising apparatus, nozzles B05B; plant for applying liquids or other fluent materials to objects by electrostatic spraying B05B5/08; processes for applying liquids or other fluent materials to surfaces B05D; [N: coating of foodstuffs A23P1/08B12, A23P1/08B14, of shaped or preshaped ceramic articles B28B11/04]) [C0311]

[N: **WARNING**
[C0802]

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

[B05C5/04](#) covered by [B05C5/00A](#), [B05C11/10H](#)
]

Notes

1. This subclass covers apparatus or hand tools, in general, for applying liquids or other fluent materials to a surface or a part thereof, by any mechanical or physical method, in particular apparatus for obtaining a uniform distribution of liquids or other fluent materials on a surface.
2. Attention is drawn to the Note following the title of class B05.

Guide heading:

Apparatus for applying liquids or other fluent materials to surfaces ([hand tools or apparatus using hand-held tools B05C17/00](#); [specially adapted for applying particulate materials B05C19/00](#))

B05C1/00

Apparatus in which liquid or other fluent material is applied to the surface of the work by contact with a member carrying the liquid or other fluent material, e.g. a porous member loaded with a liquid to be applied as a coating ([B05C5/02](#), [B05C7/00](#) take precedence)

B05C1/00A

- [N: incorporating means for heating or cooling the liquid or other fluent material ([B05C11/10H](#) takes precedence)] [N9602]

B05C1/00C

- [N: for applying liquid or other fluent material to the edges of essentially flat articles] [N9511]

B05C1/02

- for applying liquid or other fluent material to separate articles [N: ([B05C1/00C](#) takes precedence)] [C9602]

B05C1/02B

- . [N: to the outer surface of hollow articles ([B05C1/02F](#) takes precedence)]

B05C1/02D

- . [N: to flat rectangular articles, e.g. flat sheets ([B05C1/02F](#) takes precedence)]

B05C1/02F

- . [N: only at particular parts of the articles (at particular parts of work of indefinite length [B05C1/16](#))]

B05C1/04

- for applying liquid or other fluent material to work of indefinite length [N: ([B05C1/00A](#) takes precedence)]

- B05C1/06 . . . by rubbing contact, e.g. by brushes, by pads [N: (brushes in general [A46B](#))]
- B05C1/08 . . . using a roller [N: or other rotating member which contacts the work along a generating line]
- B05C1/08B [N: the material being applied without contact with the roller]
- B05C1/08D [N: Details thereof, e.g. surface characteristics]
- B05C1/08E [N: characterised by means for supplying liquid or other fluent material to the roller]
- B05C1/08F [N: characterised by means for removing partially liquid or other fluent material from the roller, e.g. scrapers (coating roller co-operating with dosing rollers [B05C1/08P2](#))]
- B05C1/08G [N: characterised by driving means for rollers or work]
- B05C1/08P [N: the work being a web or sheets ([B05C1/08B](#), [B05C1/08D](#), [B05C1/08E](#), [B05C1/08F](#), [B05C1/08G](#), [B05C1/10](#), [B05C1/12](#) take precedence)]
- B05C1/08P1 [N: being passed between the coating roller and one or more backing rollers]
- B05C1/08P2 [N: the coating roller co-operating with other rollers, e.g. dosing, transfer rollers]
- B05C1/08R [N: the work being unsupported at the line of contact between the coating roller and the work] [N1204]
- B05C1/08T [N: the work being backed up by gas jet means for pushing the material in contact with the coating roller] [N1204]
- B05C1/08V [N: the circumferential speed of the coating roller and the work speed having same direction but different value] [N1204]
- B05C1/08V2 [N: the circumferential speed of the coating roller being higher than the work speed] [N1204]
- B05C1/08X [N: Reverse coating rollers] [N1204]
- B05C1/08Y [N: a pool of coating material being formed between a roller, e.g. a dosing roller and an element cooperating therewith] [N1204]
- B05C1/08Y2 [N: the cooperating element being a roller, e.g. a coating roller] [N1204]
- B05C1/08Y4 [N: the work contacting the pool] [N1204]
- B05C1/08Z [N: Controlling means responsive to conditions of the liquid or other fluent material, of the ambient medium, of the roller or of the work] [N1204]
- B05C1/08Z2 [N: responsive to the pressure applied between two rollers, e.g. between the coating roller and a backing roller or between the coating roller and a dosing roller] [N1204]
- B05C1/08Z4 [N: responsive to the distance between two rollers, e.g. between the coating roller and a backing roller] [N1204]
- B05C1/08Z6 [N: responsive to the condition of the work] [N1204]
- B05C1/08Z6B [N: responsive to the speed of moving of the work] [N1204]
- B05C1/08Z8 [N: responsive to the thickness of the weight of material applied to the work] [N1204]
- B05C1/10 the liquid or other fluent material being supplied from inside the roller
- B05C1/12 the work being fed round the roller ([B05C1/10](#) takes precedence)
- B05C1/14 . . . using a travelling band
- B05C1/16 . . . only at particular parts of the work [N: (at particular parts of separate articles [B05C1/02F](#))]
- B05C1/16A [N: using a roller or other rotating member which contacts the work along a generating line]

B05C3/00 Apparatus in which the work is brought into contact with a bulk quantity of liquid

or other fluent material

- B05C3/00A . [N: incorporating means for heating or cooling the liquid or other fluent material ([B05C11/10H](#) takes precedence)] [N9511]
- B05C3/02 . the work being immersed in the liquid or other fluent material
- B05C3/04 . . with special provision for agitating the work or the liquid or other fluent material
- B05C3/05 . . . by applying vibrations thereto
- B05C3/08 . . . the work and the liquid or other fluent material being agitated together in a container, e.g. tumbled ([B05C3/05](#) takes precedence)
- B05C3/09 . . for treating separate articles
- B05C3/10 . . . the articles being moved through the liquid or other fluent material ([conveying articles through baths](#) [B65G](#), e.g. [B65G49/02](#))
- B05C3/109 . . . Passing liquids or other fluent materials into or through chambers containing stationary articles
- B05C3/12 . . for treating work of indefinite length
- B05C3/12D . . . [N: the work being a web, band, strip or the like] [N9608]
- B05C3/132 . . . supported on conveying means [N: ([B05C3/12D](#) takes precedence)] [C9608]
- B05C3/15 . . . not supported on conveying means ([N: [B05C3/12D](#) takes precedence]; [web or filament feeding arrangements](#) [B65H](#)) [C9608]
- B05C3/152 the work passing in zig-zag fashion over rollers
- B05C3/172 in endless form
- B05C3/18 . only one side of the work coming into contact with the liquid or other fluent material ([B05C3/02](#) takes precedence)
- B05C3/20 . for applying liquid or other fluent material only at particular parts of the work ([B05C3/02](#) takes precedence)
- B05C5/00** **Apparatus in which liquid or other fluent material is projected, poured or allowed to flow on to the surface of the work** ([B05C7/00](#) takes precedence; essentially involving spraying or electrostatic projection [B05B](#))
- B05C5/00A . [N: incorporating means for heating or cooling the liquid or other fluent material ([B05C11/10H](#) takes precedence)]
- B05C5/00B . [N: the work consisting of separate articles ([B05C5/02B](#) takes precedence)] [C0212]
- B05C5/00B2 . . [N: the work consisting of separate rectangular flat articles, e.g. flat sheets]
- B05C5/00E . [N: Curtain coaters ([B05C5/00K2](#) takes precedence)] [N0212]
- B05C5/00K . [N: Slide-hopper coaters, i.e. apparatus in which the liquid or other fluent material flows freely on an inclined surface before contacting the work] [N0212]
- B05C5/00K2 . . [N: Slide-hopper curtain coaters] [N0212]
- B05C5/02 . [N: the liquid or other fluent material being discharged through an outlet orifice by pressure, e.g.] from an outlet device in contact or almost in contact, with the work [C9811]

- B05C5/02A . . [N: for applying liquid or other fluent material to the edges of essentially flat articles]
- B05C5/02B . . [N: for applying liquid or other fluent material to separate articles ([B05C5/02A](#) takes precedence)]
- B05C5/02B1 . . . [N: only at particular parts of the articles (at particular part of web, band, strip, belt or ribbon [B05C5/02E2](#))] [C1207]
- B05C5/02B1A [N: by relative movement of article and outlet according to a predetermined path]
- B05C5/02B1A2 [N: the outlet being fixed during operation] [N1204]
- B05C5/02C . . [N: characterised by flow controlling means, e.g. valves, located proximate the outlet ([B05C5/02F1](#), [B05C5/02J1](#) take precedence; supply valves upstream the coating head [B05C11/10G](#))] [N0403]
- B05C5/02C2 . . . [N: the valve being a gate valve or a sliding valve] [N0607] [N: WARNING Not complete, see B05C5/02C]
- B05C5/02C2R [N: rotating valve, e.g. rotating perforated cylinder] [N0607] [N: WARNING Not complete, see B05C5/02C]
- B05C5/02C5 . . . [N: Fluid actuated valves] [N0607] [N: WARNING Not complete, see B05C5/02C]
- B05C5/02D . . [N: for applying liquid or other fluent material to elongated work, e.g. wires, cables, tubes] [C0212]
- B05C5/02E . . [N: for applying liquid or other fluent material to a moving work of indefinite length, e.g. to a moving web ([B05C5/02D](#), [B05C5/02F](#), [B05C5/02J](#), [B05C5/02L](#) take precedence)] [N0212]
- B05C5/02E2 . . . [N: only at particular part of the work (at particular part of separate articles [B05C5/02B1](#))] [N0212]
- B05C5/02F . . [N: Coating heads with slot-shaped outlet ([B05C5/02L](#) takes precedence)] [N0212]
- B05C5/02F1 . . . [N: flow controlled, e.g. by a valve ([B05C5/02F2](#), [B05C5/02F4](#) take precedence)] [N0212]
- B05C5/02F2 . . . [N: adjustable in width, i.e. having lips movable relative to each other in order to modify the slot width, e.g. to close it] [N0212]
- [N: **WARNING**
Not complete, see [B05C5/02F](#)
]
- B05C5/02F4 . . . [N: adjustable in length, e.g. for coating webs of different width] [N0212]
- [N: **WARNING**
Not complete, see [B05C5/02F](#)
]
- B05C5/02J . . [N: Coating heads with several outlets, e.g. aligned transversally to the moving direction of a web to be coated ([B05C5/02F](#) takes precedence)] [N0212][C0403]
- B05C5/02J1 . . . [N: flow controlled, e.g. by a valve] [N0212]
- [N: **WARNING**
Not complete, see [B05C5/02J](#)
]
- B05C5/02J1B [N: independently, e.g. individually, flow controlled] [N0212]
- B05C5/02L . . [N: Flat jet coaters, i.e. apparatus in which the liquid or other fluent material is projected from the outlet as a cohesive flat jet in direction of the work] [N0212]
- B05C5/02N . . [N: with no relative movement between the outlet and a moving work during the application] [N1204]
- B05C5/02P . . [N: the material being discharged on the work through discrete orifices as discrete

- droplets, beads or strips that coalesce on the work or are spread on the work so as to form a continuous coating] [N1204]
- B05C5/02R . . [N: Floating coating heads or nozzles] [N1204]
- B05C7/00 Apparatus specially designed for applying liquid or other fluent material to the inside of hollow work**
- B05C7/00B . [N: by devices in contact with moving work]
- B05C7/02 . the liquid or other fluent material being projected
- B05C7/04 . the liquid or other fluent material flowing or being moved through the work; the work being filled with liquid or other fluent material and emptied
- B05C7/06 . by devices moving in contact with the work
- B05C7/08 . . for applying liquids or other fluent materials to the inside of tubes
- B05C9/00 Apparatus or plant for applying liquid or other fluent material to surfaces by means not covered by any preceding group, or in which the means of applying the liquid or other fluent material is not important**
- B05C9/02 . for applying liquid or other fluent material to surfaces by single means not covered by groups [B05C1/00](#) to [B05C7/00](#), whether or not also using other means
- B05C9/02B . . [N: to obtain ornamental coatings]
- B05C9/02B2 . . . [N: using silk screens or stencils]
- B05C9/02D . . [N: using applicator shoes]
- B05C9/04 . for applying liquid or other fluent material to opposite sides of the work
- B05C9/04B . . [N: in which the opposite sides of the work are the internal and external surfaces of hollow articles]
- B05C9/06 . for applying two different liquids or other fluent materials, or the same liquid or other fluent material twice, to the same side of the work
- B05C9/08 . for applying liquid or other fluent material and performing an auxiliary operation
- B05C9/10 . . the auxiliary operation being performed before the application ([B05C9/14](#) takes precedence)
- B05C9/12 . . the auxiliary operation being performed after the application ([B05C9/14](#) takes precedence)
- B05C9/14 . . the auxiliary operation involving heating [N: or cooling]
- B05C11/00 Component parts, details or accessories not specifically provided for in groups [B05C1/00](#) to [B05C9/00](#) (means for manipulating or holding work [B05C13/00](#); enclosures for apparatus, booths [B05C15/00](#); spray booths [B05B15/12](#))**
- B05C11/02 . Apparatus for spreading or distributing liquids or other fluent materials already applied to a surface [N: ; Controlling means therefor] ([B05C7/00](#) takes precedence; Hand tools for such purposes [B05C17/10](#)); Control of the thickness of a coating [N: by spreading or distributing liquids or other fluent materials already applied to the coated surface] (controlling supply of liquid or other fluent material [B05C11/10](#)) [C0802]

- B05C11/02C . . [N: Apparatus for spreading or distributing liquids or other fluent materials already applied to the surface of an elongated body, e.g. a wire, a tube] [N9708]
- B05C11/02D . . [N: Apparatus for spreading or distributing liquids or other fluent materials already applied to a surface ([B05C11/02C](#), [B05C11/04](#) take precedence)] [N9702] [C9708]
- B05C11/02D1 . . . [N: with an essentially cylindrical body, e.g. roll or rod] [N9702]
- B05C11/02D2 . . . [N: with an elongated body renewable by feeding it across the surface] [N9702]
- B05C11/02D3 . . . [N: with a body having a large flat spreading or distributing surface] [N9702]
- B05C11/04 . . with blades
- B05C11/04B . . . [N: characterised by means for positioning, loading, or deforming the blades] [N9702]
- B05C11/04B2 [N: allowing local positioning, loading or deforming along the blades] [N9702]
- B05C11/04D . . . [N: characterised by means for holding the blades] [N9702]
- B05C11/04E . . . [N: characterised by the blades themselves] [N9702]
- B05C11/04F . . . [N: provided with end dams] [N9702]
- B05C11/04H . . . [N: Scrapers, i.e. metering blades having their edge oriented in the upstream direction in order to provide a reverse angle of attack] [N1204]
- B05C11/06 . . with a blast of gas or vapour
- B05C11/08 . . Spreading liquid or other fluent material by manipulating the work, e.g. tilting
- B05C11/10 . Storage, supply or control of liquid or other fluent material; Recovery of excess liquid or other fluent material [N: ([B05C1/08E](#), [B05C5/02C](#), [B05C17/00B](#) and [B05C19/06](#) take precedence)] [C0802]
- B05C11/10A . . [N: Means for controlling supply, i.e. flow or pressure, of liquid or other fluent material to the applying apparatus, e.g. valves] [N0802]
- [N: **WARNING** [N0802]
not complete, see [B05C11/10](#)
]
- B05C11/10A2 . . . [N: responsive to condition of liquid or other fluent material already applied to the surface, e.g. coating thickness, weight or pattern] [N0802]
- [N: **WARNING** [N0802]
not complete, see [B05C11/10](#)
]
- B05C11/10A4 . . . [N: responsive to condition of liquid or other fluent material ([B05C11/10A2](#) takes precedence)] [N0802]
- [N: **WARNING** [N0802]
not complete, see [B05C11/10](#)
]
- B05C11/10A4B [N: responsive to weight of a container for liquid or other fluent material; responsive to level of liquid or other fluent material in a container] [N0802]
- [N: **WARNING** [N0802]
not complete, see [B05C11/10](#)
]
- B05C11/10A4D [N: responsive to flow or pressure of liquid or other fluent material ([B05C11/10A4B](#) takes precedence; Control of flow in general [G05D7/00](#); Control of fluid pressure in general [G05D16/00](#))] [N0805]
- [N: **WARNING** [N0805]

- not complete, see [B05C11/10](#)
]
- B05C11/10A6 . . . [N: responsive to a conditions of ambient medium or target, e.g. humidity, temperature ([B05C11/10A2](#) takes precedence); responsive to position or movement of the coating head relative to the target] [N0802]
- [N: **WARNING** [N0802]
not complete, see [B05C11/10](#)
]
- B05C11/10A6B [N: responsive to distance of target] [N0802]
- [N: **WARNING** [N0802]
not complete, see [B05C11/10](#)
]
- B05C11/10A6D [N: responsive to presence or shape of target ([B05C11/10A6B](#) takes precedence)] [N0802]
- [N: **WARNING** [N0802]
not complete, see [B05C11/10](#)
]
- B05C11/10A6F [N: responsive to velocity of target, e.g. to web advancement rate] [N0802]
- [N: **WARNING** [N0802]
not complete, see [B05C11/10](#)
]
- B05C11/10A7 . . . [N: Valves (in general F16K; [B05C5/02C](#) takes precedence)] [N0802]
- B05C11/10A7C [N: Lift valves] [N0802]
- [N: **WARNING** [N0802]
not complete, see [B05C11/10A7](#)
]
- B05C11/10A7F [N: Gate valves; Sliding valves] [N0802]
- [N: **WARNING** [N0802]
not complete, see [B05C11/10A7](#)
]
- B05C11/10A9 . . . [N: specially designed for conducting intermittent application of small quantities, e.g. drops, of coating material ([B05C5/02C](#), [B05C11/10A7](#) take precedence)] [N0802]
- B05C11/10C . . [N: Means for supplying a selected one of a plurality of liquids or other fluent materials, or several in selected proportions, to the applying apparatus] [N0802]
- [N: **WARNING** [N0802]
not complete, see [B05C11/10](#)
]
- B05C11/10D . . [N: Recovery of excess liquid or other fluent material; Controlling means therefor] [C0802]
- B05C11/10H . . [N: provided with means for heating or cooling the liquid or other fluent material in the supplying means upstream of the applying apparatus]
- B05C11/10K . . [N: Apparatus or installations for supplying liquid or other fluent material to several applying apparatus or several dispensing outlets, e.g. to several extrusion nozzles] [N1204]

- B05C11/10M . . [N: Apparatus or installations for supplying liquid or other fluent material comprising a buffer container or an accumulator between the supply source and the applicator] [N1204]
- B05C11/105 . . by capillary action, e.g. using wicks
- B05C11/11 . Vats or other containers for liquids or other fluent materials
- B05C11/115 . . Sealing means for work inlet or outlet

- B05C13/00** **Means for manipulating or holding work, e.g. for separate articles** [N: ([B05C1/08G](#) takes precedence)]

- B05C13/02 . for particular articles
- B05C13/02B . . [N: relatively small cylindrical objects, e.g. cans, bottles]

- B05C15/00** **Enclosures for apparatus; Booths** (spray booths [B05B15/12](#))

- B05C17/00** **Hand tools or apparatus using hand held tools, for applying liquids or other fluent materials to, for spreading applied liquids or other fluent materials on, or for partially removing applied liquids or other fluent materials from, surfaces** ([N: casings or accessories for storing or handling solid or pasty toilet or cosmetic substances [A45D40/00](#) ;] brushes [A46B](#); [N: shoe polish applicators [A47L23/05](#); surgical glue applicators [A61B17/00L](#);) absorbent pads, e.g. swabs, for applying media to the human body [A61F13/15](#); [N: hand-held applicators for applying or spreading media, e.g. remedies, on the human body [A61M35/00B](#); implements for writing or drawing [B43K](#); hand-held desk devices for applying liquid, e.g. adhesive, by contact to surfaces [B43M11/06](#);) implements or apparatus for removing dry paint from surfaces [B44D 3/16](#) [N: ; container closures with pads or like contents-applying means [B65D47/42](#))] [C1002]

- B05C17/00A . [N: incorporating means for heating or cooling the liquid or other fluent material ([B05C17/005D](#) takes precedence)] [N9511]
- B05C17/00B . [N: with feed system for supplying material from an external source; Supply controls therefor ([B05C17/02](#) takes precedence)] [C1008]
- B05C17/00B2 . . [N: with means for filling or refilling the hand tool container] [N1204]
- B05C17/005 . [N: for discharging material from a reservoir or container located in or on the hand tool through an outlet orifice by pressure without using surface contacting members like pads or brushes] [C1207]
- B05C17/005B . . [N: Details of the outlet element ([B05C17/005D](#) takes precedence; nozzles for deformable tubular containers [B65D35/38](#))] [N0812] [C1002]
- B05C17/005B4 . . . [N: Means for connecting the outlet element to, or for disconnecting it from, the hand tool or its container] [N1002]
- B05C17/005B4C [N: of the bayonet type] [N1002]
- B05C17/005B4F [N: of the thread type] [N1002]
- B05C17/005B6 . . . [N: Shape or geometry of the outlet orifice or the outlet element] [N1002]
- B05C17/005C . . [N: Accessories therefor] [N1002]
- B05C17/005D . . [N: provided with means to heat the material]
- B05C17/005D1 . . . [N: the material being supplied to the apparatus in a solid state, e.g. rod, and melted before application ([B05C17/005D3](#) takes precedence)]

- B05C17/005D1B [N: the driving means for the material being manual, mechanical or electrical] [C1008]
- B05C17/005D1B3 [N: comprising a piston]
- B05C17/005D1B5 [N: the driving means comprising one or more rollers] [N0810]
- B05C17/005D3 [N: the driving means for the material being pneumatic or hydraulic]
- B05C17/005D3B [N: comprising a piston]
- B05C17/005D5 [N: Details of the heating means]
- B05C17/005D5B [N: Burners, e.g. for catalytic combustion specially adapted for hand tools or apparatus using hand tools] [N1204]
- B05C17/005F . . . [N: with means allowing the stock of material to consist of at least two different components]
- B05C17/005F2 [N: with means for adjusting the proportions of the components] [N1204]
- B05C17/005F4 [N: the different components being stored in coaxial chambers] [N1204]
- B05C17/005F4B [N: the chambers being at least initially placed in series] [N1204]
- B05C17/005F6 [N: with a dynamic mixer in the nozzle] [N1204]
- B05C17/005G . . . [N: with a pump in the hand tool]
- B05C17/005N . . . [N: the reservoir or container being pneumatically or hydraulically pressurized (B05C17/005D3, B05C17/015 take precedence)] [N1008]
- B05C17/005P . . . [N: characterised by the construction of a piston as pressure exerting means, or of the co-operating container] [N9608]
- B05C17/005P2 [N: comprising means for allowing entrapped air to escape to the atmosphere] [N1204]
- B05C17/005R . . . [N: the container for the material to be dispensed being deformable] [N1204]
- B05C17/005T . . . [N: Means, generally located near the nozzle, for piercing or perforating the front part of a cartridge] [N1204]
- B05C17/005V . . . [N: comprising a guiding rotating element, e.g. a wheel] [N1204]
- B05C17/005X . . . [N: Hand tools of the syringe type] [N1204]
- B05C17/005Z . . . [N: The liquid or other fluent material being supplied from a rigid removable cartridge having no active dispensing means, i.e. the cartridge requiring cooperation with means of the handtool to expel the material] [N1207]
- B05C17/01 . . . with [N: manually] mechanically or electrically actuated piston or the like [N: (B05C17/005D1B3 takes precedence)] [C1008]
- B05C17/01B with electrically actuated piston or the like
- B05C17/01C [N: with means for longitudinally cutting container walls during relative displacement of the piston and its cooperating container] [N0610]
- B05C17/01D [N: the piston being pulled during application] [N0603]
- B05C17/01F [N: the piston rod being flexible or articulated (B05C17/01D takes precedence)] [N0603]
- B05C17/01L [N: characterised by the piston driving means (B05C17/01B, B05C17/01D, B05C17/01F, B05C17/015 take precedence)] [N0603]
- B05C17/01L3 [N: Stepwise advancing mechanism, e.g. pawl and ratchets] [N0603]
- B05C17/01L3B [N: Lever actuated] [N0603] [C0911]
- B05C17/01L3B2 [N: comprising an element, e.g. an arc compensating element, articulated at one end on the lever and at the other end on the piston rod driving means, e.g. a pawl] [N0603]
- B05C17/01L3B4 [N: comprising a freely rotating element, e.g. a roller, between the lever and a piston rod driving means, e.g. a pawl] [N0603]

- B05C17/01L5 [N: Nut and bolt advancing mechanism, e.g. threaded piston rods] [N0603]
- B05C17/01P . . . [N: comprising an energy storing element, e.g. a spring, for exerting, e.g. when released, pressure on the material (B05C17/015 takes precedence)] [N0603]
- B05C17/01R . . . [N: comprising means for preventing oozing (B05C17/01V takes precedence)] [N0603]
- B05C17/01T . . . [N: comprising means for cutting or cleaning the cartridge nozzle tip] [N1204]
- B05C17/01V . . . [N: comprising a valve in the proximity of the nozzle that is not actuated by pressure, e.g. manually actuated] [N0603]
- B05C17/015 . . with pneumatically [N: or hydraulically] actuated piston or the like [N: ([B05C17/005D3B](#) takes precedence)]
- B05C17/02 . Rollers; [N: (for applying toilet or cosmetic substances [A45D34/04](#)); Hand tools comprising coating rollers or coating endless belts] [C0802]
- B05C17/02A . . [N: Hand tools comprising a coating endless belt] [N9603]
- B05C17/02B . . [N: characterised by the handle, e.g. handle shape or material ([B05C17/02K](#), [B05C17/02L](#) take precedence)] [N9603]
- B05C17/02F . . [N: characterised by the cover, e.g. cover material or structure, special surface for producing patterns ([B05C17/02H](#), [B05C17/035B](#) take precedence)] [N9603]
- B05C17/02G . . [N: comprising means to avoid excessive crushing of the roller cover, e.g. a spacer] [N1204]
- B05C17/02H . . [N: the coating surface of the roller being a body of revolution generated by a generatrix that is not a straight line parallel to the roller axis, e.g. for allowing coating of non planar surfaces ([B05C17/02R](#), [B05C17/035B](#) take precedence)] [N9603]
- B05C17/02J . . [N: the coating roller itself, i.e. not only its cover being deformable, e.g. to allow proper coating of non-plane surfaces (B05C17/02R takes precedence)] [N1204]
- B05C17/02K . . [N: comprising a frame supporting the coating roller at both ends or being intended to be hold at both ends by the user ([B05C17/02N](#), [B05C17/02R](#), [B05C17/035B](#), [B05C17/035D](#) take precedence)] [N9603]
- B05C17/02L . . [N: comprising means for angularly adjusting or allowing angular movement of the roller relative to its handle ([B05C17/02R](#) takes precedence)] [N9603]
- B05C17/02N . . [N: comprising protecting shields, drip pans, spatter guards or the like ([B05C17/03](#) take precedence)] [N9603]
- B05C17/02P . . [N: comprising a lateral plate, edge guard or shield] [N1204]
- B05C17/02R . . [N: comprising several coating rollers ([B05C17/035B](#) takes precedence)] [N9603]
- B05C17/02R2 . . . [N: all of them having parallel axes] [N9603]
- B05C17/02R2B [N: all of them having the same axis] [N9603]
- B05C17/02S . . [N: Rollers comprising an additional non-rotating applicator or comprising a coating roller replaceable by a non-rotating applicator] [N1204]
- B05C17/02T . . [N: comprising means for preventing the rotation of the roller (B05C17/02U takes precedence)] [N1204]
- B05C17/02U . . [N: the coating roller being motor driven] [N1204]
- B05C17/02V . . [N: comprising rotating guiding elements] [N1204]
- B05C17/02X . . [N: Accessories] [N1204]
- B05C17/02Z . . [N: Rollers for coating under water] [N1204]
- B05C17/025 . . with self-contained reservoir [N: or container for liquid or other fluent material, located inside the coating roller][C1008]
- B05C17/03 . . with feed system for supplying material from an external source [N: or with a reservoir or container for liquid or other fluent material located in or on the hand

- tool outside the coating roller] [C1008]
- B05C17/03B . . . [N: the liquid being supplied to the inside of the coating roller] [C9603]
- B05C17/03D . . . [N: with pressurised or compressible container] [N9603]
- B05C17/03D2 [N: attached to the hand tool, e.g. into the handle] [N9603]
- B05C17/03F . . . [N: with pump] [N9603]
- B05C17/03F2 [N: attached to the hand tool] [N9603]
- B05C17/035 . . . direct [N: or indirectly] to the outer surface of the [N: coating] roller [C1008]
- B05C17/035B [N: indirectly, i.e. by using transfer means, e.g. pads, brushes, rollers or bands] [N9603] [1008]
- B05C17/035B2 [N: using transfer rollers] [N9603]
- B05C17/035D [N: directly from a container attached to the hand tool, e.g. by gravity or dipping] [N9603] [C1008]
- B05C17/04 . . Stencil rollers [N: ([B05C17/02F](#) takes precedence)] [C9603]
- B05C17/06 . Stencils ([B05C17/04](#) takes precedence; stencils used in connection with printing plates or foils [B41N1/24](#); drawing accessories [B43L13/00](#))
- B05C17/08 . . Stencil holders
- B05C17/10 . Hand tools for removing partially or for spreading or redistributing applied liquids or other fluent materials, e.g. colour touchers
- B05C17/12 . Other hand tools for producing patterns
- B05C19/00** **Apparatus specially adapted for applying particulate materials to surfaces**
- B05C19/00B . [N: Flocking]
- B05C19/00B2 . . [N: Electrostatic flocking (see for electrostatic projection or pulverisation [B05B](#))]
- B05C19/00D2 . . [N: from an outlet device in contact, or almost in contact with the work]
- B05C19/00H . [N: Apparatus specially designed for applying particulate materials to the inside of hollow work]
- B05C19/00H8 . . [N: for applying the particulate materials to the inside of hollow tubes]
- B05C19/00J . [N: Accessories or implements for use in connection with applying particulate materials to surfaces; not provided elsewhere in [B05C19/00](#)]
- B05C19/02 . using fluidised-bed techniques (fluidised-bed technique in general [B01J8/24](#))
- B05C19/02D . . [N: Combined with electrostatic means]
- B05C19/04 . the particulate material being projected, poured or allowed to flow onto the surface of the work ([B05C19/02](#) takes precedence; involving spraying or electrostatic projection [B05B](#)) [N: ([B05C19/00H](#) takes precedence)]
- B05C19/06 . Storage, supply or control of the application of particulate material; Recovery of excess particulate material
- B05C21/00** **Accessories or implements for use in connection with applying liquids or other fluent materials to surfaces, not provided for in groups [B05C1/00](#) to [B05C19/00](#) (accessories or implements for use in connection with painting or artistic drawing and fully provided for in [B44D3/02](#) to [B44D3/38](#), see subgroups of [B44D3/00](#))**

B05C21/00B

- [N: Masking devices (stencils [B05C17/06](#); masking devices for which the means for applying liquids or other fluent material is spraying or is not important [B05B15/04G](#))]