

CPC**COOPERATIVE PATENT CLASSIFICATION****D06B****TREATING TEXTILE MATERIALS BY LIQUIDS, GASES OR VAPOURS**

(applying liquids to surfaces in general [B05](#); conveying in general, handling webs or filaments in general [B65](#); treating leather [C14C](#); mechanical removal of impurities from animal fibres [D01B](#); laundering [D06F](#); chemical matters, see [D06L](#) to [D06Q](#))

NOTE

In this subclass, the following terms or expressions are used with the meaning indicated:

- "fabric" includes yarns in warp or sheet form;
- "textile material" includes fabrics, yarns or other fibrous materials;
- "indefinite length" means an extent of material having the characteristic that the longitudinal dimension is effectively infinite in so far as the procedure for advancing or moving the material is concerned.

D06B 1/00

Applying liquids, gases or vapours on to textile materials to effect treatment, e.g. washing, dyeing, bleaching, sizing, impregnating (mercerising [D06B 7/00](#); solvent-treatment [D06B 9/00](#); treatment of selected parts of textile materials [D06B 11/00](#); with aid of vibration [D06B 13/00](#))

D06B 1/02

- . by spraying or projecting ([D06B 1/08](#) takes precedence; spraying in general [B05](#))

D06B 1/04

- . by pouring or allowing to flow on to the surface of the textile material

D06B 1/06

- .. flowing along an inclined surface

D06B 1/08

- . from outlets being in, or almost in, contact with the textile material

D06B 1/10

- . by contact with a member carrying the treating material

D06B 1/12

- .. by rubbing contact, e.g. with brushes or pads

D06B 1/14

- .. with a roller

D06B 1/141

- ... { where an element is used to mitigate the quantity of treating material on the roller }

D06B 1/142

- ... { where an element is used to mitigate the quantity of treating material that the textile material can retain (if removing occurs later see [D06B 15/00](#) and sub-groups) }

D06B 1/143

- ... { where elements are used to mitigate the quantities of treating material on the roller and on the textile material }

D06B 1/144

- ... { the treating material being kept in a trough formed between the roller and non-rotating elements }

D06B 1/145

- ... { the treating material being kept in the trough formed between two or more rollers }

D06B 1/146

- { where the textile material is first passed in a nip before it comes into contact with the treating material }

D06B 1/147

- { the textile material being a tubular fabric (takes precedence over [D06B 1/146](#)) }

- D06B 1/148 . . . { the treating material being supplied to the roller by spraying or pouring }
- D06B 1/149 . . . { the treating material being applied to the textile material without contact with the roller (e.g. by capillarity) }
- D06B 1/16 . . . the treating material being supplied from inside the roller

- D06B 3/00** **Passing of textile materials through liquids, gases or vapours to effect treatment, e.g. washing, dyeing, bleaching, sizing, impregnating (mercerising [D06B 7/00](#); solvent-treatment [D06B 9/00](#); treatment of selected parts of textile materials [D06B 11/00](#); with aid of vibration [D06B 13/00](#))**

- D06B 3/02 . of fibres, slivers or rovings
- D06B 3/04 . of yarns, threads or filaments
- D06B 3/045 . . { in a tube or a groove }
- D06B 3/06 . . individually handled
- D06B 3/08 . . as hanks
- D06B 3/09 . . as packages, e.g. cheeses

- D06B 3/10 . of fabrics ([D06B 3/24](#), [D06B 3/28](#), [D06B 3/32](#) take precedence; jiggers [D06B 3/32](#))
- D06B 3/105 . . { of tubular fabrics }
- D06B 3/12 . . in zig-zag manner over series of guiding means
- D06B 3/14 . . in wound form
- D06B 3/16 . . in superimposed, i.e. stack-packed, form
- D06B 3/18 . . combined with squeezing, e.g. in padding machines
- D06B 3/185 . . . { below the bath level }
- D06B 3/20 . . with means to improve the circulation of the treating material on the surface of the fabric

- D06B 3/201 . . . { the treating material being forced through the textile material }
- D06B 3/203 { by suction, e.g. by means of perforated drums }
- D06B 3/205 . . . { by vibrating }
- D06B 3/206 { the textile material }
- D06B 3/208 { the treating material }
- D06B 3/22 . . only one side of the fabric coming into contact with the guiding means

- D06B 3/24 . of fabrics in roped form
- D06B 3/26 . . in superimposed, i.e. stack-packed, form

- D06B 3/28 . of fabrics propelled by, or with the aid of, jets of the treating material

- D06B 3/30 . of articles, e.g. stockings

- D06B 3/32 . of open-width materials backwards and forwards between beaming rollers during treatment; Jiggers
- D06B 3/325 . . { with means to improve the circulation of the treating material on the surface of the textile material }

- D06B 3/34 . Driving arrangements of machines or apparatus

- D06B 3/345 . . { Means for controlling the tension in the textile material (in general [D02H 13/22](#))}
- D06B 3/36 . . Drive control

D06B 5/00 **Forcing liquids, gases or vapours through textile materials to effect treatment, e.g. washing, dyeing, bleaching, sizing impregnating ([mercerising D06B 7/00](#); solvent-treatment [D06B 9/00](#); treatment of selected parts of textile materials [D06B 11/00](#); with aid of vibration [D06B 13/00](#))**

- D06B 5/02 . through moving materials of indefinite length
- D06B 5/04 . . through slivers or rovings
- D06B 5/06 . . through yarns, threads or filaments
- D06B 5/08 . . through fabrics
- D06B 5/10 . . using centrifugal force

- D06B 5/12 . through materials of definite length
- D06B 5/14 . . through fibres, slivers or rovings
- D06B 5/16 . . through yarns, threads or filaments
- D06B 5/18 . . . through beamed warp
- D06B 5/20 . . . through hanks
- D06B 5/22 . . through fabrics
- D06B 5/24 . . through articles, e.g. stockings
- D06B 5/26 . . using centrifugal force

D06B 7/00 **Mercerising, e.g. lustring by mercerising**

- D06B 7/02 . of slivers
- D06B 7/04 . of yarns, threads or filaments
- D06B 7/06 . . of hanks of yarns
- D06B 7/08 . of fabrics of indefinite length
- D06B 7/10 . of tubular fabrics or tubular articles

D06B 9/00 **Solvent-treatment of textile materials ([dry-cleaning D06F 43/00](#))**

- D06B 9/02 . Solvent-dyeing
- D06B 9/04 . Successively applying two or more different solvent-based treating materials
- D06B 9/06 . with recovery of the solvent

D06B 11/00 **Treatment of selected parts of textile materials, e.g. partial dyeing**

- D06B 11/0003 . { of fibres, slivers or rovings }
- D06B 11/0006 . . { in connection with a spinning step }

- D06B 11/0009 . { of a yarn in wound form }
- D06B 11/0013 .. { by local injection }
- D06B 11/0016 .. { by local suction }

- D06B 11/002 . { of moving yarns }
- D06B 11/0023 .. { by spraying or pouring }
- D06B 11/0026 .. { by spaced contacts with a member carrying a single treating material }
- D06B 11/003 .. { by continuous contact with a member able to bring simultaneously a plurality of treating materials }
- D06B 11/0033 .. { by periodical dipping }
- D06B 11/0036 .. { specially disposed for a local treatment }
- D06B 11/004 .. { in a tensionless state }

- D06B 11/0043 . { of hanks of yarns }
- D06B 11/0046 .. { hung on supports }
- D06B 11/005 .. { wound on supports }
- D06B 11/0053 .. { laid down on supports }

- D06B 11/0056 . { of fabrics }
- D06B 11/0059 .. { by spraying }
- D06B 11/0063 .. { by pouring }
- D06B 11/0066 .. { by spaced contacts with a member carrying a single treating material }
- D06B 11/0069 .. { by continuous contact with a member able to bring simultaneously a plurality of treating materials }

- D06B 11/0073 . { of articles }

- D06B 11/0076 . { Transfer-treating }

- D06B 11/0079 . { Local modifications of the ability of the textile material to receive the treating materials, (e.g. its dyeability) }
- D06B 11/0083 .. { the textile material being fibres or slivers }
- D06B 11/0086 .. { the textile material being one or more yarns }
- D06B 11/0089 .. { the textile material being a surface }

- D06B 11/0093 . { Treatments carried out during or after a regular application of treating materials, in order to get differentiated effects on the textile material }
- D06B 11/0096 .. { to get a faded look }

- D06B 13/00** **Treatment of textile materials with liquids, gases or vapours with aid of vibration**

- D06B 15/00** **Removing liquids, gases or vapours from textile materials in association with treatment of the materials by liquids, gases or vapours (drying [F26B](#))**

- D06B 15/005 . { by squeezing, otherwise than by rollers }

NOTE

Group [D06B 15/12](#) takes precedence over groups [D06B 15/02](#) to [D06B 15/10](#)

- D06B 15/02 . by squeezing rollers {([D06B 15/046](#) takes precedence)}
- D06B 15/025 .. { for tubular fabrics }

- D06B 15/04 . by suction
- D06B 15/043 .. { by means of a perforated drum }
- D06B 15/046 .. { included in a pair of squeezing rollers }

- D06B 15/06 . by vibrating the textile material

- D06B 15/08 . by scraping
- D06B 15/085 .. { by contact with the textile material }

- D06B 15/09 . by jets of gases

- D06B 15/10 . by use of centrifugal force

- D06B 15/12 . up to the moisture regain of the textile material

D06B 17/00 Storing of textile materials in association with the treatment of the materials by liquids, gases or vapours (carriers or supports specially adapted therefor [D06B 23/04](#))

- D06B 17/005 . { in helical form }
- D06B 17/02 . in superimposed, i.e. stack-packed, form; J-boxes
- D06B 17/04 . in wound form
- D06B 17/06 . in festooned form

D06B 19/00 Treatment of textile materials by liquids, gases or vapours, not provided for in groups [D06B 1/00](#) to [D06B 17/00](#)

- D06B 19/0005 . { Fixing of chemicals, e.g. dyestuffs, on textile materials ([D06B 9/02](#), [D06B 17/00](#) to [D06B 17/06](#) take precedence)}
- D06B 19/0011 .. { by heated air }
- D06B 19/0017 ... { the textile material passing through a chamber }
- D06B 19/0023 ... { wherein suction is applied to one face of the textile material }
- D06B 19/0029 .. { by steam }
- D06B 19/0035 ... { the textile material passing through a chamber }
- D06B 19/0041 ... { wherein suction is applied to one face of the textile material }
- D06B 19/0047 .. { by air steam }
- D06B 19/0052 ... { the textile material passing through a chamber }

- D06B 19/0058 . . . { wherein suction is applied to one face of the textile material }
- D06B 19/0064 . . { by a fixing bath ([D06B 19/0082](#) takes precedence) }
- D06B 19/007 . . { by application of electric energy }
- D06B 19/0076 . . { by contact with a heated surface }
- D06B 19/0082 . . . { by passing through a bath of liquid metal or a fluidised bed }
- D06B 19/0088 . { using a short bath ratio liquor }
- D06B 19/0094 . . { as a foam }

D06B 21/00 **Successive treatments of textile materials by liquids, gases or vapours** (successive treatments in which the characteristics of a single treatment are of interest only, or in which all treatments have characteristics provided for in a single main group, see the relevant groups for the single treatment)

- D06B 21/02 . the treatments being performed in a single container

D06B 23/00 **Component parts, details, or accessories of apparatus or machines, specially adapted for the treating of textile materials, not restricted to a particular kind of apparatus, provided for in groups [D06B 1/00](#) to [D06B 21/00](#)**

- D06B 23/02 . Rollers
- D06B 23/021 . . { Compressive rollers }
- D06B 23/023 . . { Guiding rollers }
- D06B 23/025 . . { Perforated rollers }
- D06B 23/026 . . { characterised by particular surface features }
- D06B 23/028 . . { Rollers for thermal treatment }
- D06B 23/04 . Carriers or supports for textile materials to be treated
- D06B 23/042 . . { Perforated supports }
- D06B 23/045 . . . { radially collapsible }
- D06B 23/047 . . { Replacing or removing the core of the package }
- D06B 23/06 . Guiding means for preventing filaments, yarns or threads from sticking together
- D06B 23/08 . Untwisting devices
- D06B 23/10 . Devices for dyeing samples ([D06B 23/12](#) takes precedence)
- D06B 23/12 . Means for taking samples from textile materials during or after treatment
- D06B 23/14 . Containers, e.g. vats
- D06B 23/16 . . with means for introducing or removing textile materials without modifying container pressure
- D06B 23/18 . . Sealing arrangements
- D06B 23/20 . Arrangements of apparatus for treating processing-liquids, -gases or -vapours, e.g. purification, filtration, distillation (such apparatus per se, see the relevant classes for the apparatus)

- D06B 23/205 . . { for adding or mixing constituents of the treating material }
- D06B 23/22 . . for heating
- D06B 23/24 . Means for regulating the amount of treating material picked up by the textile material during its treatment
- D06B 23/26 . . in response to a test conducted on the textile material
- D06B 23/28 . . in response to a test conducted on the treating material
- D06B 23/30 . Means for cleaning apparatus or machines, or parts thereof
- D06B 2700/00 Treating of textile materials, e.g. bleaching, dyeing, mercerising, impregnating, washing; Fulling of fabrics**
- D06B 2700/02 . Rollers or brushes for applying bleaching, washing or dyeing liquid to fibrous materials
- D06B 2700/04 . Partial dyeing, e.g. of fabrics
- D06B 2700/06 . Passing warp yarns in unwound or in wound form through bleaching, washing or dyeing liquid
- D06B 2700/09 . Apparatus for passing open width fabrics through bleaching, washing or dyeing liquid
- D06B 2700/095 . . for continuous treatment of open width fabrics, in which the fabric is guided without tension, e.g. superimposed or festooned, in order to extend the duration of treatment
- D06B 2700/10 . Apparatus for passing fabrics in roped form through bleaching, washing or dyeing liquid, e.g. for continuous treatment
- D06B 2700/105 . . for batch treatment in winch vats of fabrics in roped form
- D06B 2700/14 . Passing liquid through fabrics or linoleum
- D06B 2700/17 . Passing liquid through fibrous materials in open containers with a form not determined by the nature of the fibrous material
- D06B 2700/18 . Passing liquid through fibrous materials in closed containers with a form not determined by the nature of the fibrous material
- D06B 2700/19 . Passing bleaching, washing or dyeing liquid through fibrous materials by centrifuging
- D06B 2700/25 . Sizing, starching or impregnating warp yarns; Making glazed yarn; Drying sized warp yarns
- D06B 2700/27 . Sizing, starching or impregnating fabrics
- D06B 2700/28 . Impregnating or coating cords or ropes
- D06B 2700/35 . Rollers for machines for treating textiles, e.g. dyeing, drying, sizing
- D06B 2700/36 . Devices or methods for dyeing, washing or bleaching not otherwise provided for
- D06B 2700/37 . Machines for forming hanks