

ECLA EUROPEAN CLASSIFICATION

D02J

FINISHING OR DRESSING OF FILAMENTS, YARNS, THREADS, CORDS, ROPES OR THE LIKE (curling or crimping [D02G](#); by treatment with liquids, gases or vapours [D06B](#); finishing other than by liquid treatment, of yarns in warp or sheet form [D06C](#); for chemical matters, see [D06L](#), [D06M](#), [D06P](#), [D06Q](#); treatment during rope-making, apparatus for treating ropes auxiliary to rope-making [D07B](#))

Note

Attention is drawn to the note following the title of Class [D02](#).

D02J1/00

Modifying the structure or properties resulting from a particular structure; Modifying, retaining, or restoring the physical form or cross-sectional shape, e.g. by use of dies or squeeze rollers (modifying only the surface [D02J3/00](#))

D02J1/02

. Bulking, e.g. looping (by crimping, by curling [D02G](#))

D02J1/04

. Compacting

D02J1/06

. Imparting irregularity, e.g. slubbing or other non-uniform features, e.g. high- and low-shrinkage or strengthened and weakened sections

D02J1/08

. Interlacing constituent filaments without breakage thereof, e.g. by use of turbulent air streams

D02J1/12

. Modifying stretch/bulk properties of textured yarns or the like by after-treatment

D02J1/14

. Rendering uniform or evening non-uniform features

D02J1/16

. Rubbing or similar working, e.g. to redistribute or remove fibres

D02J1/18

. Separating or spreading

D02J1/20

. Stressing or stress-relieving, e.g. by vibration or subjection to electrostatic stress or electric discharge

D02J1/22

. Stretching or tensioning, shrinking or relaxing, e.g. by use of overfeed and underfeed apparatus, or preventing stretch ([stretch spinning D01D5/12](#))

D02J1/22B

. . [N: Preliminary treatments]

D02J1/22C

. . [N: Stretching in a gaseous atmosphere or in a fluid bed]

D02J1/22D

. . [N: Stretching in a liquid bath]

D02J1/22G

. . [N: Selection or control of the temperature during stretching]

D02J1/22H

. . [N: Mechanical characteristics of stretching apparatus]

D02J1/22H2

. . . [N: Surface characteristics of guiding or stretching organs]

D02J1/22K

. . [N: Control of the stretching tension; Localisation of the stretching neck; Draw-pins]

D02J1/22M

. . [N: Stretching in two or more steps, with or without intermediate steps]

D02J1/22N

. . [N: Relaxing (in combination with crimping [D02G1/20](#))]

D02J3/00

Modifying the surface

- D02J3/02 . by abrading, scraping, scuffing, cutting, or nicking ([preliminary roughening of fibres, e.g. for spinning, D01G3/00](#))
- D02J3/04 . by brushing
- D02J3/06 . by polishing, e.g. glazing, glossing
- D02J3/08 . . by compressing, e.g. by calendering or ironing
- D02J3/10 . by indenting
- D02J3/12 . by removing projecting ends of fibres
- D02J3/14 . . by shearing
- D02J3/16 . . by singeing
- D02J3/18 . Treating with particulate, semi-solid, or solid substances, e.g. wax ([during package formation B65H71/00](#); waxing yarns or the like as incidental measures during spinning or twisting [D01H13/30](#))

- D02J7/00** **Cleaning, e.g. removing dust, loose fibres, charred ends** ([in combination with the shearing, singeing, or otherwise removing of projecting fibre ends D02J3/12, D02J3/14, D02J3/16](#))

- D02J11/00** **Combinations, not covered by any one of the preceding groups, of processes provided for in such groups; Plant for carrying-out such combinations of processes**

- D02J13/00** **Heating or cooling the yarn, thread, cord, rope, or the like, not specific to any one of the processes provided for in this subclass** ([heating, cooling or drying during spinning or twisting D01H](#); [drying of yarns or the like, in general F26B](#))
- D02J13/00B . [\[N: in a tube or vessel\]](#)
- D02J13/00C . [\[N: by contact with at least one stationary surface, e.g. a plate\]](#)
- D02J13/00D . [\[N: by contact with at least one rotating roll\]](#)
- D02J13/00E . [\[N: in a fluid bed \(stretching in a fluid bed D02J1/22C\)\]](#)
- D02J13/00F . [\[N: with elimination of fumes\]](#)