

**CPC****COOPERATIVE PATENT 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](#) .

**Guidance heading:****D02J 1/00**

**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 [D02J 3/00](#))

**D02J 1/02**

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

**D02J 1/04**

- . Compacting

**D02J 1/06**

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

**D02J 1/08**

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

**D02J 1/12**

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

**D02J 1/14**

- . Rendering uniform or evening non-uniform features

**D02J 1/16**

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

**D02J 1/18**

- . Separating or spreading

**D02J 1/20**

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

**D02J 1/22**

- . Stretching or tensioning, shrinking or relaxing, e.g. by use of overfeed and underfeed apparatus, or preventing stretch ([stretch spinning D01D 5/12](#))

**D02J 1/221**

- .. {Preliminary treatments }

**D02J 1/222**

- .. {Stretching in a gaseous atmosphere or in a fluid bed }

**D02J 1/223**

- .. {Stretching in a liquid bath }

**D02J 1/224**

- .. {Selection or control of the temperature during stretching }

**D02J 1/225**

- .. {Mechanical characteristics of stretching apparatus }

**D02J 1/226**

- ... {Surface characteristics of guiding or stretching organs }

- D02J 1/227 . . {Control of the stretching tension; Localisation of the stretching neck; Draw-pins }
- D02J 1/228 . . {Stretching in two or more steps, with or without intermediate steps }
- D02J 1/229 . . {Relaxing (in combination with crimping [D02G 1/20](#)) }

## **D02J 3/00      Modifying the surface**

- D02J 3/02 . by abrading, scraping, scuffing, cutting, or nicking (preliminary roughening of fibres, e.g. for spinning, [D01G 3/00](#))
- D02J 3/04 . by brushing
- D02J 3/06 . by polishing, e.g. glazing, glossing
- D02J 3/08 . . by compressing, e.g. by calendering or ironing
- D02J 3/10 . by indenting
- D02J 3/12 . by removing projecting ends of fibres
- D02J 3/14 . . by shearing
- D02J 3/16 . . by singeing
- D02J 3/18 . Treating with particulate, semi-solid, or solid substances, e.g. wax (during package formation [B65H 71/00](#); waxing yarns or the like as incidental measures during spinning or twisting [D01H 13/30](#))

## **D02J 7/00      Cleaning, e.g. removing dust, loose fibres, charred ends (in combination with the shearing, singeing, or otherwise removing of projecting fibre ends [D02J 3/12](#), [D02J 3/14](#), [D02J 3/16](#))**

## **D02J 11/00      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**

## **D02J 13/00      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](#) )**

- D02J 13/001 . {in a tube or vessel }
- D02J 13/003 . {by contact with at least one stationary surface, e.g. a plate }
- D02J 13/005 . {by contact with at least one rotating roll }
- D02J 13/006 . {in a fluid bed (stretching in a fluid bed [D02J 1/222](#)) }
- D02J 13/008 . {with elimination of fumes }