

**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](#) .

**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](#)) }

<b>D02J 3/00</b>	<b>Modifying the surface</b>
D02J 3/02	. by abrading, scraping, scuffing, cutting, or nicking (preliminary roughening of fibres, e.g. for spinning, <a href="#">D01G 3/00</a> )
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 <a href="#">B65H 71/00</a> ; waxing yarns or the like as incidental measures during spinning or twisting <a href="#">D01H 13/30</a> )
<b>D02J 7/00</b>	<b>Cleaning, e.g. removing dust, loose fibres, charred ends</b> (in combination with the shearing, singeing, or otherwise removing of projecting fibre ends <a href="#">D02J 3/12</a> , <a href="#">D02J 3/14</a> , <a href="#">D02J 3/16</a> )
<b>D02J 11/00</b>	<b>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</b>
<b>D02J 13/00</b>	<b>Heating or cooling the yarn, thread, cord, rope, or the like, not specific to any one of the processes provided for in this subclass</b> (heating, cooling or drying during spinning or twisting <a href="#">D01H</a> ; drying of yarns or the like, in general <a href="#">F26B</a> )
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 <a href="#">D02J 1/222</a> ) }
D02J 13/008	. {with elimination of fumes }