D CPC - COOPERATIVE PATENT CLASSIFICATION

D TEXTILES; PAPER

TEXTILES OR FLEXIBLE MATERIALS NOT OTHERWISE PROVIDED FOR

D02 YARNS; MECHANICAL FINISHING OF YARNS OR ROPES; WARPING OR BEAMING

(NOTE omitted)

D02G CRIMPING OR CURLING FIBRES, FILAMENTS, THREADS, OR YARNS; YARNS OR THREADS

NOTE

Attention is drawn to the note following the title of class D02

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

1/00 Producing crimped or curled fibres, filaments, yarns, or threads, giving them latent characteristics (yarns per se D02G 3/00; during formation of artificial filaments, threads, or the like D01D 5/22; general aspects of chemical treatment D06M)

NOTE

In the context of this group, the terms “texturing” or “texturising” encompass curling and crimping

1/002 . . . (by knitting, weaving or tufting, fixing and then unravelling)
1/004 . . . (by heating fibres, filaments, yarns or threads so as to create a temperature gradient across their diameter, thereby imparting them latent asymmetrical shrinkage properties)
1/006 . . . (by impinging the yarn against an uneven surface and thereby deforming it)
1/008 . . . (with provision for imparting irregular effects to the yarn)
1/02 . . . by twisting, fixing the twist and backtwisting, i.e. by imparting false twist
1/0206 . . . (by false-twisting)
1/0213 . . . [after drawing the yarn on the same machine]
1/022 . . . [while simultaneously drawing the yarn]
1/0226 . . . [multiple false-twisting]
1/0233 . . . [with real twist being imparted to the yarn before or after false-twisting]
1/024 . . . [with provision for imparting irregular effects to the yarn]
1/0246 . . . [at least some of the filaments being simultaneously broken or cut, e.g. by stretching or abrading]
1/0253 . . . [while bonding at least some of the filaments or fibres together]
1/026 . . . [in the presence of a crimp finish]
1/0266 . . . [false-twisting machines]
1/0273 . . . [threading up and starting the false-twisting machine]

1/028 . . . [by twisting or false-twisting at least two filaments, yarns or threads, fixing the twist and separating the filaments, yarns or threads]
1/0286 . . . [characterised by the use of certain filaments, fibres or yarns]
1/0293 . . . [composed, at least in part, of natural fibres]
1/04 . . . Devices for imparting false twist
1/06 . . . Spindles
1/08 . . . Rollers [or other friction causing elements]
1/082 . . . . . . [with the periphery of at least one disc]
1/085 . . . . . . [between crossed belts]
1/087 . . . . . . [between the flanks of rotating discs]
1/10 . . . using knife edges, e.g. heated knife edges, for edge crimping
1/12 . . . using stuffer boxes
1/122 . . . [introducing the filaments in the stuffer box by means of a fluid jet]
1/125 . . . [including means for monitoring or controlling yarn processing]
1/127 . . . [including drawing or stretching on the same machine]
1/14 . . . using grooved rollers or gear-wheel-type members
1/16 . . . using jets or streams of turbulent gases, e.g. air, steam {interlacing filaments D02J 1/08}
1/161 . . . [yarn crimping air jets]
1/162 . . . [with provision for imparting irregular effects to the yarn]
1/164 . . . [in the presence of a liquid, e.g. a crimp finish]
1/165 . . . [characterised by the use of certain filaments or yarns]
1/167 . . . [including means for monitoring or controlling yarn processing]
1/168 . . . [including drawing or stretching on the same machine]
1/18 . . . by combining fibres, filaments, or yarns, having different shrinkage characteristics (D02G 1/004 takes precedence)
Yarns or threads, e.g. fancy yarns; Processes or apparatus for the production thereof, not otherwise provided for (for producing crimped or curled yarns D02G 1/00)

**NOTE:**

In this main group, further classification in indexing scheme D10B for aspects relating to yarns is required.

- 3/02 . . Yarns or threads characterised by the material or by the materials from which they are made
  - 3/025 . . . { Yarns or threads formed from hair (horse-hair threads D02G 3/14)
  - 3/04 . . . Blended or other yarns or threads containing components made from different materials
  - 3/042 . . . . [all components being made from natural material]
  - 3/045 . . . . [all components being made from artificial or synthetic material]
  - 3/047 . . . . [including aramid fibres]
  - 3/06 . . . Threads formed from strip material other than paper
  - 3/08 . . . Paper yarns or threads
  - 3/10 . . . Yarns or threads formed from collagenous materials, e.g. catgut ([surgical threads or yarns A61L])
  - 3/12 . . . Threads containing metallic filaments or strips
  - 3/14 . . . Horse-hair threads
  - 3/16 . . . Yarns or threads made from mineral substances
  - 3/18 . . . . from glass or the like
  - 3/182 . . . . { the glass being present only in part of the structure }
  - 3/185 . . . . . . . [in the core]
  - 3/187 . . . . . . . [in the sheath]
  - 3/20 . . . . from asbestos
  - 3/22 . . Yarns or threads characterised by constructional features {, e.g. blending, filament/fibre (piecing of yarns or threads D01H 15/00) }
  - 3/24 . . . Bulked yarns or threads, e.g. formed from staple fibre components with different relaxation characteristics
  - 3/26 . . . . with characteristics dependent on the amount or direction of twist
  - 3/28 . . . . Doubled, plied, or cabled threads ([D02G 3/32, D02G 3/34) take precedence; effect yarns D02G 3/34; details of spindles, e.g. bearings D01H 7/86])
  - 3/281 . . . . . [using one drawing frame for two slivers and twisting of the slivers to a single yarn, i.e. spin-twisting (guides having associated actuators with mutual action D01H 13/1658)]
  - 3/283 . . . . . [using hollow spindles through which one yarn is running]
  - 3/285 . . . . . [one yarn running over the feeding spool of another yarn]
  - 3/286 . . . . . [with alternatively “S” and “Z” direction of twist, e.g. Self-twist process]
  - 3/288 . . . . . [with same direction of twist, but with an amount of twist varying along the thread]
  - 3/30 . . . . . Crèped or other highly-twisted yarns or threads
  - 3/32 . . . . . Elastic yarns or threads {; Production of plied or cored yarns, one of which is elastic}
  - 3/322 . . . . . [using hollow spindles (details of spindles, e.g. bearings D01H 7/86)]
  - 3/324 . . . . . [using a drawing frame]
  - 3/326 . . . . . [the elastic properties due to the construction rather than to the use of elastic material]
  - 3/328 . . . . . { containing elastane }
  - 3/34 . . . Yarns or threads having slubs, knops, spirals, loops, tufts, or other irregular or decorative effects, i.e. effect yarns { (carding machines for producing decorative or fancy effects in products D01G; drafting machines with varying draft according to a pre-arranged pattern D01H 5/36) }
  - 3/343 . . . . . [using hollow spindles (details of spindles, e.g. bearings D01H 7/86)]
  - 3/346 . . . . . [with coloured effects, i.e. by differential dyeing process]
  - 3/36 . . . . . Cored or coated yarns or threads { ([D02G 3/34, D02G 3/40) take precedence] ; elastic yarns or threads D02G 3/32)
  - 3/362 . . . . . [using hollow spindles (details of spindles, e.g. bearings D01H 7/86)]
  - 3/365 . . . . . . . { around which a reel supporting feeding spool rotates }
  - 3/367 . . . . . [using a drawing frame]
  - 3/38 . . . Threads in which fibres, filaments, or yarns are wound with other yarns or filaments, { e.g. wrap yarns, i.e. strands of filaments or staple fibres are wrapped by a helically wound binder yarn; (D02G 3/32 takes precedence) ; (covering endless core threads with fibres by using open-end spinning techniques D01H 4/00) }
  - 3/385 . . . . . [using hollow spindles, e.g. making coverspun yarns]
  - 3/40 . . . . . Yarns in which fibres are united by adhesives; Impregnated yarns or threads
  - 3/402 . . . . . [the adhesive being one component of the yarn, i.e. thermoplastic yarn]
  - 3/404 . . . . . [Yarns or threads coated with polymeric solutions]
  - 3/406 . . . . . . . [where the polymeric solution is removable at a later stage, e.g. by washing]
  - 3/408 . . . . . . [Flocked yarns]
  - 3/42 . . . . . Chenille threads
  - 3/44 . . . Yarns or threads characterised by the purpose for which they are designed { (protective gloves A41D 19/00; protective clothing A62B 17/00; ropes D07B 1/02) }
  - 3/441 . . . . . [Yarns or threads with anistatic, conductive or radiation-shielding properties (electroconductive, anti-static or radiation-shielding filaments D01F 1/09, D01F 1/106; anti-static fabrics D03D 15/0005; conducting, insulating or anti-static layers for floor coverings D06N 7/0042)]
  - 3/442 . . . . . [Cut or abrasion resistant yarns or threads]
  - 3/443 . . . . . [Heat-resistant, fireproof or flame-retardant yarns or threads (fire- or flame-proof filaments D01F 1/07; woven fabrics using heat-resistant or fireproof threads D03D 15/12)]
3/444 . . {Yarns or threads for use in sports applications (strings for tennis rackets A63B 51/02)}

3/445 . . {Yarns or threads for use in floor fabrics (floor fabrics A47G 27/00; floor coverings on textile basis D06N 7/0005)}

3/446 . . {Yarns or threads for use in automotive applications}

3/447 . . {Yarns or threads for specific use in general industrial applications, e.g. as filters or reinforcement}

3/448 . . {Yarns or threads for use in medical applications (D02G 3/449 takes precedence; surgical suture materials A61L 17/00)}

3/449 . . {Yarns or threads with antibacterial properties (filaments containing agents inhibiting growth of microorganisms D01F 1/103)}

3/46 . . Sewing-cottons or the like

3/48 . . Tyre cords (tyre reinforcements B60C 9/00; metal cords for reinforcing rubber or plastic articles D07B 1/0606)