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 3/36, D02G 3/40) 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]

3/30 . . . . [with same direction of twist, but with an amount of twist varying along the thread]

3/32 . . . . [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 antistatic, 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)