COOPERATIVE PATENT CLASSIFICATION

TEXTILES; PAPER

TEXTILES OR FLEXIBLE MATERIALS NOT OTHERWISE PROVIDED FOR

NATURAL OR MAN-MADE THREADS OR FIBRES; SPINNING

MECHANICAL METHODS OR APPARATUS IN THE MANUFACTURE OF ARTIFICIAL FILAMENTs, THREADS, FIBRES, BRISTLES OR RIBBONS

NOTES
1. Attention is drawn to the note following the title of Class D01.
2. Apparatus specially adapted for the manufacture of carbon filaments are classified in group D01F 9/12

WARNINGS
1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:
   D01D 5/10 covered by D01D 5/08 and subgroups
2. 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 Treatment of filament-forming or like material
   (working of plastics or substances in a plastic state, in general B29)
   1/02 . Preparation of spinning solutions
   1/04 . Melting filament-forming substances
   1/06 . Feeding liquid to the spinning head (constructions of pumps F04)
   1/065 . Addition and mixing of substances to the spinning solution or to the melt; Homogenising
   1/09 . Control of pressure, temperature or feeding rate
   1/10 . Filtering or de-aerating the spinning solution or melt
   1/103 . De-aerating
   1/106 . Filtering

4/00 Spinneterre packs; Cleaning thereof
   ((D01D 5/0069), D01D 5/24, D01D 5/253, D01D 5/28 take precedence)
   4/02 . Spinneterres (alloys therefor C22C)
   4/022 . Processes or materials for the preparation of spinneterres
   4/025 . Melt-blowing or solution-blowing dies
   4/027 . Spinneterres containing inserts
   4/04 . Cleaning spinneterres or other parts of the spinneterre packs (cleaning in general B08B)
   4/06 . Distributing spinning solution or melt to spinning nozzles
   4/08 . Supporting spinneterres or other parts of spinneterre packs

5/00 Formation of filaments, threads, or the like
   5/0007 . Electro-spinning (non-woven fabrics produced by electro-spinning D04H 1/728)
   5/0015 . [characterised by the initial state of the material]
   5/0023 . [the material being a polymer melt]
   5/003 . [the material being a polymer solution or dispersion (D01D 5/0053 takes precedence)]
   5/0038 . [the fibre formed by solvent evaporation, i.e. dry electro-spinning]
using organic materials

**WARNING**
This group is no longer used for the classification of new documents as from July 2011. The backlog of this group is being continuously reclassified to D01D 5/08 and its subgroups.

5/11 . . Flash-spinning
5/12 . . Stretch-spinning methods ([D01D 5/098 takes precedence] finishing by stretching D02J 1/22)
5/14 . . with flowing liquid [or gaseous] stretching media [. e.g. solution-blowing]
5/16 . . using rollers, or like mechanical devices, e.g. snubbing pins
5/18 . . by means of rotating spinnerets
5/20 . . with varying denier along their length
5/22 . . with a crimped or curled structure; with a special structure to simulate wool (producing crimped or curled effects in filaments or threads after formation D02G 1/00)
5/23 . . by asymmetrical cooling of filaments, threads, or the like, leaving the spinnerettes
5/24 . . with a hollow structure; Spinnerette packs therefor (D01D 5/38 takes precedence; producing tubes of plastic material B29D; addition of agents forming hollow filaments D01F 1/08)
5/247 . . Discontinuous hollow structure or microporous structure
5/253 . . with a non-circular cross section; Spinnerette packs therefor (D01D 5/38 takes precedence)
5/26 . . Formation of staple fibres (by flash-spinning D01D 5/11)
5/28 . . while mixing different spinning solutions or melts during the spinning operation; Spinnerette packs therefor
5/30 . . Conjugate filaments; Spinnerette packs therefor
5/32 . . . Side-by-side structure; Spinnerette packs therefor
5/34 . . . Core-skin structure; Spinnerette packs therefor
5/36 . . . Matrix structure; Spinnerette packs therefor
5/38 . . Formation of filaments, threads, or the like during polymerisation
5/40 . . by applying a shearing force to a dispersion or solution of filament formable polymers, e.g. by stirring
5/42 . . by cutting films into narrow ribbons or filaments or by fibrillation of films [or filaments]
5/423 . . [by fibrillation of films or filaments]
5/426 . . [by cutting films]

**7/00** Collecting the newly-spun products ([D01D 5/0076 takes precedence;] collecting newly-spun products with the imparting of twist D01H)
7/02 . . in centrifugal spinning pots

**10/00** Physical treatment of artificial filaments or the like during manufacture, i.e. during a continuous production process before the filaments have been collected (finishing D02J)
10/02 . . Heat treatment (heating for finishing D02J 13/00)
10/04 . . Supporting filaments or the like during their treatment
10/0409 . . [on bobbins]