SECTION D — TEXTILES; PAPER

D01 NATURAL OR MAN-MADE THREADS OR FIBRES; SPINNING

D01F CHEMICAL FEATURES IN THE MANUFACTURE OF MAN-MADE FILAMENTS, THREADS, FIBRES, BRISTLES OR RIBBONS; APPARATUS SPECIALLY ADAPTED FOR THE MANUFACTURE OF CARBON FILAMENTS [2]

Note(s)

Attention is drawn to the Note following the title of class D01.

Subclass index

1/00 General methods for the manufacture of man-made filaments or the like [1, 2006.01]

1/02 • Addition of substances to the spinning solution or to the melt (addition of substances to viscose D01F 2/08) **[1, 2006.01]**

1/04 • • Pigments **[1, 2006.01]**

1/06 • • Dyes **[1, 2006.01]**

1/07 • • for making fire- or flame-proof filaments **[4, 2006.01]**

1/08 • • for forming hollow filaments **[1, 2006.01]**

1/09 • • for making electroconductive or anti-static filaments **[4, 2006.01]**

1/10 • • Other agents for modifying properties **[2, 2006.01]**

2/00 Monocomponent artificial filaments or the like of cellulose or cellulose derivatives; Manufacture thereof [2, 2006.01]

2/02 • from solutions of cellulose in acids, bases, or salts **[2, 2006.01]**

2/04 • • from cuprammonium solutions **[2, 2006.01]**

2/06 • from viscose (preparation of alkali cellulose C08B) **[2, 2006.01]**

2/08 • • Composition of the spinning solution or the bath (preparing or dissolving cellulose xanthate C08B) **[2, 2006.01]**

2/10 • • • Addition to the spinning solution or spinning bath of substances which exert their effect equally well in either **[2, 2006.01]**

2/12 • • • Addition of delustring agents to the spinning solution **[2, 2006.01]**

2/14 • • • • Addition of pigments **[2, 2006.01]**

2/16 • • • Addition of dyes to the spinning solution **[2, 2006.01]**

2/18 • • • Addition to the spinning solution of substances to influence ripening **[2, 2006.01]**

2/20 • • • for the manufacture of hollow threads **[2, 2006.01]**

2/22 • • by the dry spinning process **[2, 2006.01]**

2/24 • from cellulose derivatives **[2, 2006.01]**

2/26 • • from nitrocellulose **[2, 2006.01]**

2/28 • • from organic cellulose esters or ethers, e.g. cellulose acetate **[2, 2006.01]**

2/30 • • • by the dry spinning process **[2, 2006.01]**

4/00 Monocomponent artificial filaments or the like of proteins; Manufacture thereof [2, 2006.01]

4/02 • from fibroin **[2, 2006.01]**

4/04 • from casein **[2, 2006.01]**

4/06 • from globulins, e.g. groundnut protein **[2, 2006.01]**

6/00 Monocomponent man-made filaments or the like of synthetic polymers; Manufacture thereof [2, 2006.01]

Note(s) [2006.01]

In this group, the percentage for determining the major constituent is expressed in mole percent.

6/02 • from homopolymers obtained by reactions only involving carbon-to-carbon unsaturated bonds **[2, 2006.01]**

6/04 • • from polyolefins **[2, 2006.01]**

6/06 • • • from polypropylene **[2, 2006.01]**

6/08 • • from polymers of halogenated hydrocarbons **[2, 2006.01]**

6/10 • • • from polyvinyl chloride or polyvinylidene chloride **[2, 2006.01]**

6/12 • • • from polymers of fluorinated hydrocarbons **[2, 2006.01]**

6/14 • • from polymers of unsaturated alcohols, e.g. polyvinyl alcohol, or of their acetals or ketals **[2, 2006.01]**

6/16 • • from polymers of unsaturated carboxylic acids or unsaturated organic esters, e.g. polyacrylic esters, polyvinyl acetate **[2, 2006.01]**

6/18 • • from polymers of unsaturated nitriles, e.g. polyacrylonitrile, polyvinylidene cyanide **[2, 2006.01]**
6/20 • • from polymers of cyclic compounds with one carbon-to-carbon double bond in the side chain **[2, 2006.01]**
6/22 • • • from polystyrene **[2, 2006.01]**
6/24 • • from polymers of aliphatic compounds with more than one carbon-to-carbon double bond **[2, 2006.01]**
6/26 • • from other polymers **[2, 2006.01]**
6/28 • from copolymers obtained by reactions only involving carbon-to-carbon unsaturated bonds **[2, 2006.01]**
6/30 • • comprising olefins as the major constituent **[2, 2006.01]**
6/32 • • comprising halogenated hydrocarbons as the major constituent **[2, 2006.01]**
6/34 • • comprising unsaturated alcohols, acetals, or ketals as the major constituent **[2, 2006.01]**
6/36 • • comprising unsaturated carboxylic acids or unsaturated organic esters as the major constituent **[2, 2006.01]**
6/38 • • comprising unsaturated nitriles as the major constituent **[2, 2006.01]**
6/40 • • Modacrylic fibres, i.e. containing 35 to 85% acrylonitrile **[2, 2006.01]**
6/42 • • comprising cyclic compounds containing one carbon-to-carbon double bond in the side chain as major constituent **[2, 2006.01]**
6/44 • from mixtures of polymers obtained by reactions only involving carbon-to-carbon unsaturated bonds as major constituent with other polymers or low-molecular-weight compounds **[2, 2006.01]**
6/46 • • of polyolefins **[2, 2006.01]**
6/48 • • of polymers of halogenated hydrocarbons **[2, 2006.01]**
6/50 • • of polyalcohols, polyacetals or polyketals **[2, 2006.01]**
6/52 • • of polymers of unsaturated carboxylic acids or unsaturated esters **[2, 2006.01]**
6/54 • • of polymers of unsaturated nitriles **[2, 2006.01]**
6/56 • • of polymers of cyclic compounds with one carbon-to-carbon double bond in the side chain **[2, 2006.01]**
6/58 • from homopolycondensation products **[2, 2006.01]**
6/60 • • from polyamides (from polyamino acids or polypeptides D01F 6/68) **[2, 2006.01]**
6/62 • • from polyesters **[2, 2006.01]**
6/64 • • • from polycarbonates **[2, 2006.01]**
6/66 • • from polyethers **[2, 2006.01]**
6/68 • • from polyaminoacids or polypeptides **[2, 2006.01]**
6/70 • • from polyurethanes **[2, 2006.01]**
6/72 • • from polyureas **[2, 2006.01]**
6/74 • • from polycondensates of cyclic compounds, e.g. polyimides, polybenzimidazoles **[2, 2006.01]**
6/76 • • from other polycondensation products **[2, 2006.01]**
6/78 • from copolycondensation products **[2, 2006.01]**
6/80 • • from copolyamides **[2, 2006.01]**
6/82 • • from polyester amides or polyether amides **[2, 2006.01]**
6/84 • • from copolyesters **[2, 2006.01]**
6/86 • • from polyetheresters **[2, 2006.01]**
6/88 • from mixtures of polycondensation products as major constituent with other polymers or low-molecular-weight compounds **[2, 2006.01]**
6/90 • • of polyamides **[2, 2006.01]**
6/92 • • of polyesters **[2, 2006.01]**
6/94 • • of other polycondensation products **[2, 2006.01]**
6/96 • from other synthetic polymers **[2, 2006.01]**

8/00 Conjugated, i.e. bi- or multicomponent, man-made filaments or the like; Manufacture thereof [2, 2006.01]
8/02 • from cellulose, cellulose derivatives, or proteins **[2, 2006.01]**
8/04 • from synthetic polymers **[2, 2006.01]**
8/06 • • with at least one polyolefin as constituent **[2, 2006.01]**
8/08 • • with at least one polyacrylonitrile as constituent **[2, 2006.01]**
8/10 • • with at least one other macromolecular compound obtained by reactions only involving carbon-to-carbon unsaturated bonds as constituent **[2, 2006.01]**
8/12 • • with at least one polyamide as constituent **[2, 2006.01]**
8/14 • • with at least one polyester as constituent **[2, 2006.01]**
8/16 • • with at least one other macromolecular compound obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds **[2, 2006.01]**
8/18 • from other substances **[2, 2006.01]**

9/00 Man-made filaments or the like of other substances; Manufacture thereof; Apparatus specially adapted for the manufacture of carbon filaments [1, 5, 2006.01]
9/02 • of reaction products of rubber with acids or acid anhydrides, e.g. sulfur dioxide **[1, 2006.01]**
9/04 • of alginates **[1, 2006.01]**
9/08 • of inorganic material (working or processing of metal wire B21F; from softened glass, minerals, or slags C03B 37/00; incandescent bodies F21H, H01K 1/02, H01K 3/02) **[2, 2006.01]**
9/10 • • by decomposition of organic substances (D01F 9/12 takes precedence) **[2, 2006.01]**
9/12 • • Carbon filaments; Apparatus specially adapted for the manufacture thereof **[2, 5, 2006.01]**
9/127 • • • by thermal decomposition of hydrocarbon gases or vapours **[5, 2006.01]**
9/133 • • • • Apparatus therefor **[5, 2006.01]**
9/14 • • • by decomposition of organic filaments **[2, 5, 2006.01]**
9/145 • • • • from pitch or distillation residues **[5, 2006.01]**
9/15 • • • • • from coal pitch **[5, 2006.01]**
9/155 • • • • • from petroleum pitch **[5, 2006.01]**
9/16 • • • • from products of vegetable origin or derivatives thereof, e.g. from cellulose acetat (D01F 9/18 takes precedence) **[2, 5, 2006.01]**
9/17 • • • • • from lignin **[5, 2006.01]**
9/18 • • • • from proteins, e.g. from wool **[2, 2006.01]**
9/20 • • • • from polyaddition, polycondensation or polymerisation products (D01F 9/145, D01F 9/16, D01F 9/18 take precedence) **[2, 5, 2006.01]**
9/21 • • • • • from macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds **[5, 2006.01]**

9/22 • • • • • • • from polyacrylonitriles **[2, 5, 2006.01]**

9/24 • • • • • from macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds **[5, 2006.01]**

9/26 • • • • • • • from polyesters **[5, 2006.01]**

9/28 • • • • • • • from polyamides **[5, 2006.01]**

9/30 • • • • • • • • from aromatic polyamides **[5, 2006.01]**

9/32 • • • • Apparatus therefor **[5, 2006.01]**

11/00 Chemical after-treatment of man-made filaments or the like during manufacture (finishing D06M) **[2, 2006.01]**

11/02 • of cellulose, cellulose derivatives, or proteins **[2, 2006.01]**

11/04 • of synthetic polymers **[2, 2006.01]**

11/06 • • of macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds **[2, 2006.01]**

11/08 • • of macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds **[2, 2006.01]**

11/10 • of carbon **[2, 2006.01]**

11/12 • • with inorganic substances **[5, 2006.01]**

11/14 • • with organic compounds, e.g. macromolecular compounds **[5, 2006.01]**

11/16 • • by physicochemical methods **[5, 2006.01]**

13/00 Recovery of starting material, waste material or solvents during the manufacture of man-made filaments or the like [2, 2006.01]

13/02 • of cellulose, cellulose derivatives, or proteins **[2, 2006.01]**

13/04 • of synthetic polymers **[2, 2006.01]**