

## 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

GENERAL PROCESSES.....	1/00
FILAMENTS AND MANUFACTURE THEREOF	
From cellulose or derivatives; from proteins.....	2/00, 4/00
From synthetic resins.....	6/00
From other materials.....	9/00
Multicomponent filaments.....	8/00
AFTER-TREATMENT; RECOVERY OF STARTING MATERIAL.....	11/00, 13/00

<b>1/00</b>	<b>General methods for the manufacture of man-made filaments or the like [1, 2006.01]</b>	2/22	• • by the dry spinning process [2, 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]	2/24	• from cellulose derivatives [2, 2006.01]
1/04	• • Pigments [1, 2006.01]	2/26	• • from nitrocellulose [2, 2006.01]
1/06	• • Dyes [1, 2006.01]	2/28	• • from organic cellulose esters or ethers, e.g. cellulose acetate [2, 2006.01]
1/07	• • for making fire- or flame-proof filaments [4, 2006.01]	2/30	• • • by the dry spinning process [2, 2006.01]
1/08	• • for forming hollow filaments [1, 2006.01]	<b>4/00</b>	<b>Monocomponent artificial filaments or the like of proteins; Manufacture thereof [2, 2006.01]</b>
1/09	• • for making electroconductive or anti-static filaments [4, 2006.01]	4/02	• from fibroin [2, 2006.01]
1/10	• • Other agents for modifying properties [2, 2006.01]	4/04	• from casein [2, 2006.01]
<b>2/00</b>	<b>Monocomponent artificial filaments or the like of cellulose or cellulose derivatives; Manufacture thereof [2, 2006.01]</b>	4/06	• from globulins, e.g. groundnut protein [2, 2006.01]
2/02	• from solutions of cellulose in acids, bases, or salts [2, 2006.01]	<b>6/00</b>	<b>Monocomponent man-made filaments or the like of synthetic polymers; Manufacture thereof [2, 2006.01]</b>
2/04	• • from cuprammonium solutions [2, 2006.01]	<b>Note(s) [2006.01]</b>	
2/06	• from viscose (preparation of alkali cellulose C08B) [2, 2006.01]		In this group, the percentage for determining the major constituent is expressed in mole percent.
2/08	• • Composition of the spinning solution or the bath (preparing or dissolving cellulose xanthate C08B) [2, 2006.01]	6/02	• from homopolymers obtained by reactions only involving carbon-to-carbon unsaturated bonds [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]	6/04	• • from polyolefins [2, 2006.01]
2/12	• • • Addition of delustring agents to the spinning solution [2, 2006.01]	6/06	• • • from polypropylene [2, 2006.01]
2/14	• • • • Addition of pigments [2, 2006.01]	6/08	• • from polymers of halogenated hydrocarbons [2, 2006.01]
2/16	• • • • Addition of dyes to the spinning solution [2, 2006.01]	6/10	• • • from polyvinyl chloride or polyvinylidene chloride [2, 2006.01]
2/18	• • • • Addition to the spinning solution of substances to influence ripening [2, 2006.01]	6/12	• • • from polymers of fluorinated hydrocarbons [2, 2006.01]
2/20	• • • for the manufacture of hollow threads [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 acetate (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]	11/06	• •	of macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds [2, 2006.01]
9/24	• • • • •	from macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds [5, 2006.01]	11/08	• •	of macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds [2, 2006.01]
9/26	• • • • •	from polyesters [5, 2006.01]	11/10	•	of carbon [2, 2006.01]
9/28	• • • • •	from polyamides [5, 2006.01]	11/12	• •	with inorganic substances [5, 2006.01]
9/30	• • • • •	from aromatic polyamides [5, 2006.01]	11/14	• •	with organic compounds, e.g. macromolecular compounds [5, 2006.01]
9/32	• • • •	Apparatus therefor [5, 2006.01]	11/16	• •	by physicochemical methods [5, 2006.01]
<b>11/00</b>	<b>Chemical after-treatment of man-made filaments or the like during manufacture</b> (finishing D06M) [2, 2006.01]		<b>13/00</b>	<b>Recovery of starting material, waste material or solvents during the manufacture of man-made filaments or the like</b> [2, 2006.01]	
11/02	•	of cellulose, cellulose derivatives, or proteins [2, 2006.01]	13/02	•	of cellulose, cellulose derivatives, or proteins [2, 2006.01]
11/04	•	of synthetic polymers [2, 2006.01]	13/04	•	of synthetic polymers [2, 2006.01]