

# CPC COOPERATIVE PATENT CLASSIFICATION

## A HUMAN NECESSITIES

### HEALTH; AMUSEMENT

#### A61 MEDICAL OR VETERINARY SCIENCE; HYGIENE

**A61L METHODS OR APPARATUS FOR STERILISING MATERIALS OR OBJECTS IN GENERAL; DISINFECTION, STERILISATION, OR DEODORISATION OF AIR; CHEMICAL ASPECTS OF BANDAGES, DRESSINGS, ABSORBENT PADS, OR SURGICAL ARTICLES; MATERIALS FOR BANDAGES, DRESSINGS, ABSORBENT PADS, OR SURGICAL ARTICLES** (preservation of bodies or disinfecting characterised by the agent employed [A01N](#); preserving, e.g. sterilising, food or foodstuffs [A23](#); preparations for medical, dental or toilet purposes [A61K](#); preparation of ozone [C01B 13/10](#))

#### WARNINGS

- The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:
 

<a href="#">A61L 33/10</a>	covered by	<a href="#">A61L 33/0011</a>
<a href="#">A61L 33/14</a>	covered by	<a href="#">A61L 33/0011</a>
<a href="#">A61L 33/16</a>	covered by	<a href="#">A61L 33/0047</a>
<a href="#">A61L 101/00-A61L 101/56</a>	covered by	
- IPC7 groups [A61L 2/07](#) and subgroups, and [A61L 9/012](#) - [A61L 9/014](#) might be incomplete as relevant documents might still be classified in the hierarchical higher groups
- 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.

#### Disinfection or sterilising

**2/00 Methods or apparatus for disinfecting or sterilising materials or objects other than foodstuffs or contact lenses; Accessories therefor** (for contact lenses [A61L 12/00](#); atomisers for disinfecting agents [A61M](#); sterilisation of packages or package contents in association with packaging [B65B 55/00](#); treatment of water, waste water, sewage or sludge [C02F](#); disinfecting paper [D21H 21/36](#); disinfecting devices for water closets [E03D](#); articles having provision for disinfection, see the relevant subclasses for these articles, e.g. [H04R 1/12](#))

2/0005 . {for pharmaceuticals, biologicals or living parts}  
 2/0011 . . {using physical methods}  
 2/0017 . . . {Filtration}  
 2/0023 . . . {Heat}  
 2/0029 . . . {Radiation}  
 2/0035 . . . . {Gamma radiation}  
 2/0041 . . . . {X-rays}  
 2/0047 . . . . {Ultraviolet radiation}  
 2/0052 . . . . {Visible light}  
 2/0058 . . . . {Infrared radiation}  
 2/0064 . . . . {Microwaves}  
 2/007 . . . . {Particle radiation, e.g. electron-beam, alpha or beta radiation}  
 2/0076 . . . . {using a photocatalyst or photosensitiser}  
 2/0082 . . {using chemical substances}  
 2/0088 . . . {Liquid substances}  
 2/0094 . . . {Gaseous substances}  
 2/02 . using physical phenomena

2/022 . . {Filtration}  
 2/025 . . Ultrasonics  
 2/03 . . Electric current  
 2/035 . . . {Electrolysis}  
 2/04 . . Heat ([A61L 2/08](#) takes precedence)  
 2/06 . . . Hot gas  
 2/07 . . . . Steam  
 2/08 . . Radiation  
 2/081 . . . {Gamma radiation}  
 2/082 . . . {X-rays}  
 2/084 . . . {Visible light}  
 2/085 . . . {Infrared radiation}  
 2/087 . . . {Particle radiation, e.g. electron-beam, alpha or beta radiation}  
 2/088 . . . {using a photocatalyst or photosensitiser}  
 2/10 . . . Ultra-violet radiation  
 2/12 . . . Microwaves  
 2/14 . . Plasma, i.e. ionised gases  
 2/16 . using chemical substances  
 2/18 . . Liquid substances {or solutions comprising solids or dissolved gases}  
 2/183 . . . {Ozone dissolved in a liquid}  
 2/186 . . . {Peroxide solutions}  
 2/20 . . Gaseous substances, e.g. vapours  
 2/202 . . . {Ozone}  
 2/204 . . . {Formaldehyde}  
 2/206 . . . {Ethylene oxide}  
 2/208 . . . {Hydrogen peroxide}  
 2/22 . . Phase substances, e.g. smokes, aerosols {or sprayed or atomised substances}

- 2/23 . . Solid substances, e.g. granules, powders, blocks, tablets
- 2/232 . . . layered or coated
- 2/235 . . . cellular, porous or foamed
- 2/238 . . . Metals or alloys, e.g. oligodynamic metals
- 2/24 . Apparatus using programmed or automatic operation
- 2/26 . Accessories {or devices or components used for biocidal treatment}
- 2/28 . . Devices for testing the effectiveness or completeness of sterilisation, e.g. indicators which change colour (apparatus involving enzymes or microorganisms C12M 1/34; methods involving enzymes or microorganisms C12Q 1/00)
- 9/00 Disinfection, sterilisation or deodorisation of air** (body deodorants A61Q 15/00; purifying air by respirators A62B, A62D 9/00; separating dispersed particles from gases or vapours B01D 45/00 - B01D 51/00, B03C 3/00; chemical or biological purification of waste gases B01D 53/34; production of ozone C01B 13/10; air-conditioning systems incorporating sterilisation F24F 3/16)
- 9/01 . Deodorant compositions {(compositions released by contact with a liquid A61L 9/05)}
- 9/012 . . characterised by being in a special form, e.g. gels, emulsions {(A61L 9/048 takes precedence)}
- 9/013 . . containing animal or plant extracts, or vegetable material
- 9/014 . . containing sorbent material, e.g. activated carbon
- 9/015 . using gaseous or vaporous substances, e.g. ozone (A61L 9/20 takes precedence {; evaporation in general B01B 1/005})
- 9/02 . . using substances evaporated in the air by heating or combustion
- 9/03 . . . Apparatus therefor
- 9/032 . . . . {comprising a fan}
- 9/035 . . . . {emanating multiple odours}
- 9/037 . . . . {comprising a wick}
- 9/04 . . using substances evaporated in the air without heating
- 9/042 . . . {with the help of a macromolecular compound as a carrier or diluent (A61L 9/048 takes precedence)}
- 9/044 . . . {with the help of an organic compound other than a macromolecular compound}
- 9/046 . . . {with the help of a non-organic compound}
- 9/048 . . . {air treating gels}
- 9/05 . . . specially adapted to be released by contact with a liquid, e.g. for toilets
- 9/12 . . . Apparatus, e.g. holders, therefor
- 9/122 . . . . {comprising a fan}
- 9/125 . . . . {emanating multiple odours}
- 9/127 . . . . {comprising a wick}
- 9/14 . using sprayed or atomised substances {including air-liquid contact processes}
- 9/145 . . {air-liquid contact processes, e.g. scrubbing}
- 9/16 . using physical phenomena
- 9/18 . . Radiation (A61L 9/22 takes precedence)
- 9/20 . . . Ultra-violet radiation
- 9/205 . . . . {using a photocatalyst or photosensitiser}
- 9/22 . . Ionisation

- 11/00 Methods specially adapted for refuse** {(disintegrating medical waste B02C 19/0075; disposal of medical waste B09B 3/0075)}
- 12/00 Methods or apparatus for disinfecting or sterilising contact lenses; Accessories therefor**
- 12/02 . using physical phenomena, e.g. electricity, ultrasonics or ultrafiltration
- 12/023 . . {Electrolysis}
- 12/026 . . {Ultrasounds}
- 12/04 . . Heat (A61L 12/06 takes precedence)
- 12/06 . . Radiation, e.g. ultraviolet or microwaves
- 12/063 . . . {Ultraviolet radiation}
- 12/066 . . . {Microwaves}
- 12/08 . using chemical substances
- 12/082 . . {in combination with specific enzymes}
- 12/084 . . {in a gaseous state}
- 12/086 . . {Container, accessories or devices therefor}
- 12/088 . . {Heavy metals}
- 12/10 . . Halogens or compounds thereof
- 12/102 . . . {Chlorine dioxide (ClO<sub>2</sub>)}
- 12/105 . . . {Iodine, iodides or iodophores}
- 12/107 . . . {Hypohalites; Active halogens}
- 12/12 . . Non-macromolecular oxygen-containing compounds, e.g. hydrogen peroxide or ozone (A61L 12/10 takes precedence)
- 12/122 . . . {Ozone}
- 12/124 . . . {Hydrogen peroxide; Peroxy compounds}
- 12/126 . . . . {neutralised with catalase or peroxidase}
- 12/128 . . . . {neutralised with catalysts}
- 12/14 . . Organic compounds not covered by groups A61L 12/10 or A61L 12/12
- 12/141 . . . {Biguanides, e.g. chlorhexidine}
- 12/142 . . . . {Polymeric biguanides}
- 12/143 . . . {Quaternary ammonium compounds}
- 12/145 . . . . {Polymeric quaternary ammonium compounds}
- 12/146 . . . {Aldehydes}
- 12/147 . . . {Alcohols or derivatives thereof (aldehydes A61L 12/146)}
- 12/148 . . . {Mercury containing compounds, e.g. thimerosal}

**Chemical aspects of, or use of materials for, bandages, dressings or absorbent pads {comprising a solid support or backing}** (for liquid bandages A61L 26/00; radioactive dressings {A61N 5/1029} {transdermal delivery devices A61K 9/7023})

- 15/00 Chemical aspects of, or use of materials for, bandages, dressings or absorbent pads** (for liquid bandages A61L 26/00; radioactive dressings {A61N 5/1029})

#### NOTES

1. In groups A61L 15/08 - A61L 15/12, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.
2. When classifying in groups A61L 15/08 - A61L 15/12, classification is also made in group A61L 15/14 if the use of materials characterised by their function or physical properties is of interest.

<p>A61L 15/00 (continued)</p> <p>15/07</p> <p>15/08</p> <p>15/10</p> <p>15/12</p> <p>15/125</p> <p>15/14</p> <p>15/16</p> <p>15/18</p> <p>15/20</p> <p>15/22</p> <p>15/225</p> <p>15/24</p> <p>15/26</p> <p>15/28</p> <p>15/30</p> <p>15/32</p> <p>15/325</p>	<p>3. In groups <a href="#">A61L 15/18</a> - <a href="#">A61L 15/40</a>, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place. {This Note corresponds to IPC Note (1) relating to <a href="#">A61L 15/18</a> - <a href="#">A61L 15/40</a>.}</p> <p>4. When classifying in groups <a href="#">A61L 15/18</a> - <a href="#">A61L 15/40</a>, classification is also made in group <a href="#">A61L 15/42</a> if the use of materials characterised by their function or physical properties is of interest.</p> <p>• Stiffening bandages</p> <p>• • containing inorganic materials, e.g. plaster of Paris</p> <p>• • containing organic materials</p> <p>• • containing macromolecular materials</p> <p><b>NOTE</b></p> <p>In group <a href="#">A61L 15/12</a> and subgroups, the use of specific polymers is indicated using the relevant combination set symbol, adding, after the <a href="#">A61L 15/12</a> symbol, the correspondent symbol of the polymer composition in subclass <a href="#">C08L</a>, e.g. stiffening bandage based on polyurethane <a href="#">A61L 15/12</a>, <a href="#">C08L 75/04</a></p> <p>• • • {Mixtures of macromolecular compounds}</p> <p>• • Use of materials characterised by their function or physical properties</p> <p>• Bandages, dressings or absorbent pads for physiological fluids such as urine or blood, e.g. sanitary towels, tampons</p> <p>• • containing inorganic materials</p> <p>• • containing organic materials</p> <p>• • containing macromolecular materials</p> <p><b>NOTE</b></p> <p>In groups <a href="#">A61L 15/22</a> - <a href="#">A61L 15/30</a>, the use of specific polymers is indicated using the relevant combination set symbol, adding, after the symbol in <a href="#">A61L</a>, the correspondent symbol of the polymer in subclass <a href="#">C08L</a>, e.g. absorbent pad containing starch <a href="#">A61L 15/22</a>, <a href="#">C08L 3/02</a></p> <p>• • • {Mixtures of macromolecular compounds}</p> <p>• • • Macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds; Derivatives thereof {<a href="#">A61L 15/225</a> takes precedence}</p> <p>• • • Macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds; Derivatives thereof {<a href="#">A61L 15/225</a> takes precedence}</p> <p>• • • Polysaccharides or their derivatives {<a href="#">A61L 15/225</a> takes precedence}</p> <p>• • • Rubbers or their derivatives {<a href="#">A61L 15/225</a> takes precedence}</p> <p>• • • Proteins, polypeptides; Degradation products or derivatives thereof, e.g. albumin, collagen, fibrin, gelatin {<a href="#">A61L 15/225</a> takes precedence}</p> <p>• • • • {Collagen}</p>	<p>15/34</p> <p>15/36</p> <p>15/38</p> <p>15/40</p> <p>15/42</p> <p>15/425</p> <p>15/44</p> <p>15/46</p> <p>15/48</p> <p>15/50</p> <p>15/52</p> <p>15/54</p> <p>15/56</p> <p>15/58</p> <p>15/585</p> <p>15/60</p> <p>15/62</p> <p>15/64</p> <p>17/00</p> <p>17/005</p> <p>17/04</p> <p>17/06</p> <p>17/08</p> <p>17/10</p> <p>17/105</p> <p>17/12</p> <p>17/14</p> <p>17/145</p>	<p>• • • Oils, fats, waxes or natural resins {<a href="#">A61L 15/225</a> takes precedence}</p> <p>• • containing microorganisms</p> <p>• • containing enzymes</p> <p>• • containing ingredients of undetermined constitution or reaction products thereof {, e.g. plant or animal extracts}</p> <p>• • Use of materials characterised by their function or physical properties (<a href="#">liquid bandages A61L 26/00</a>)</p> <p>• • • {Porous materials, e.g. foams or sponges}</p> <p>• • • Medicaments</p> <p>• • • Deodorants or malodour counteractants, e.g. to inhibit the formation of ammonia or bacteria</p> <p>• • • Surfactants</p> <p>• • • Lubricants; Anti-adhesive agents</p> <p>• • • Water-repellants</p> <p>• • • Radio-opaque materials</p> <p>• • • Wetness-indicators or colourants</p> <p>• • • Adhesives</p> <p>• • • • {Mixtures of macromolecular compounds}</p> <p>• • • Liquid-swelling gel-forming materials, e.g. super-absorbents</p> <p>• • • {Compostable,} hydrosoluble or hydrodegradable materials</p> <p>• • • specially adapted to be resorbable inside the body</p> <p><b>Materials for surgical sutures or for ligaturing blood vessels</b> (<a href="#">surgical adhesives A61L 24/00</a>; <a href="#">surgical instruments, devices or methods for suturing or ligaturing A61B 17/04</a>, <a href="#">A61B 17/12</a>; <a href="#">supports or packages for suture materials A61B 17/04</a>); <b>{Materials for prostheses or catheters</b> (bone cements or surgical adhesives for soft body tissues <a href="#">A61L 24/00</a>; shape or structure of prostheses <a href="#">A61F 2/00</a>; shape or structure of catheters <a href="#">A61M 5/00</a>)}</p> <p><b>NOTES</b></p> <p>1. In groups <a href="#">A61L 17/04</a> - <a href="#">A61L 17/145</a>, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.</p> <p>2. When classifying in group <a href="#">A61L 17/00</a>, classification is also made in <a href="#">A61L 33/00</a> if the materials used are antithrombogenic.</p> <p>• {containing a biologically active substance, e.g. a medicament or a biocide}</p> <p>• Non-resorbable materials</p> <p>• At least partially resorbable materials</p> <p>• • of animal origin, e.g. catgut, collagen</p> <p>• • containing macromolecular materials</p> <p>• • • {Polyesters not covered by <a href="#">A61L 17/12</a>}</p> <p>• • • Homopolymers or copolymers of glycolic acid or lactic acid</p> <p>• Post-treatment to improve physical properties</p> <p>• • {Coating}</p>
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**24/00 Surgical adhesives or cements; Adhesives for colostomy devices**

**NOTES**

1. In groups [A61L 24/00](#) - [A61L 24/12](#), the use of specific polymers is indicated using the relevant combination set symbol, adding, after the symbol in [A61L](#), the correspondent symbol of the polymer in subclass [C08L](#), e.g. surgical adhesives based on polymethylmethacrylate: [A61L 24/06](#), [C08L 33/12](#)
2. In groups [A61L 24/00](#) - [A61L 24/12](#), the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.
3. When classifying in group [A61L 24/00](#), classification is also made in [A61L 33/00](#) if the materials used are antithrombogenic.

- 24/0005 . {Ingredients of undetermined constitution or reaction products thereof}
- 24/001 . {Use of materials characterised by their function or physical properties}
- 24/0015 . . {Medicaments; Biocides}
- 24/0021 . . {Plasticisers}
- 24/0026 . . {Sprayable compositions}
- 24/0031 . . {Hydrogels or hydrocolloids}
- 24/0036 . . {Porous materials, e.g. foams or sponges}
- 24/0042 . . {Materials resorbable by the body}
- 24/0047 . {Composite materials, i.e. containing one material dispersed in a matrix of the same or different material}
- 24/0052 . . {with an inorganic matrix}
- 24/0057 . . . {Carbon}
- 24/0063 . . . {Phosphorus containing materials, e.g. apatite}
- 24/0068 . . . {Inorganic materials not covered by groups [A61L 24/0057](#) or [A61L 24/0063](#)}
- 24/0073 . . {with a macromolecular matrix}
- 24/0078 . . . {containing fillers of carbon}
- 24/0084 . . . {containing fillers of phosphorus-containing inorganic compounds, e.g. apatite}
- 24/0089 . . . {containing inorganic fillers not covered by groups [A61L 24/0078](#) or [A61L 24/0084](#)}
- 24/0094 . . . {containing macromolecular fillers}
- 24/02 . containing inorganic materials
- 24/04 . containing macromolecular materials
- 24/043 . . {Mixtures of macromolecular materials}
- 24/046 . . {obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds ([A61L 24/043](#) takes precedence)}
- 24/06 . . obtained by reactions only involving carbon-to-carbon unsaturated bonds {([A61L 24/043](#), [A61L 24/046](#) take precedence)}
- 24/08 . . Polysaccharides {([A61L 24/043](#) takes precedence)}
- 24/10 . . Polypeptides; Proteins {([A61L 24/043](#) takes precedence)}
- 24/102 . . . {Collagen}
- 24/104 . . . {Gelatin}
- 24/106 . . . {Fibrin; Fibrinogen}
- 24/108 . . . {Specific proteins or polypeptides not covered by groups [A61L 24/102](#) - [A61L 24/106](#)}
- 24/12 . . Ionomer cements, e.g. glass-ionomer cements {([A61L 24/043](#) takes precedence)}

**26/00 Chemical aspects of, or use of materials for, {wound dressings or} bandages {in liquid, gel or powder form}**

**NOTES**

1. When classifying in group [A61L 26/00](#), classification is also made in [A61L 33/00](#) if the materials used are antithrombogenic.
2. In groups [A61L 26/00](#) - [A61L 26/0095](#), the use of specific polymers is indicated using the relevant combination set symbol, adding, after the symbol in [A61L](#), the correspondent symbol of the polymer in subclass [C08L](#), e.g. liquid bandages on alginates: [A61L 26/0023](#), [C08L 5/04](#)

- 26/0004 . {containing inorganic materials}
- 26/0009 . {containing macromolecular materials}
- 26/0014 . . {obtained by reactions only involving carbon-to-carbon unsaturated bonds}
- 26/0019 . . {obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds}
- 26/0023 . . {Polysaccharides}
- 26/0028 . . {Polypeptides; Proteins; Degradation products thereof}
- 26/0033 . . . {Collagen}
- 26/0038 . . . {Gelatin}
- 26/0042 . . . {Fibrin; Fibrinogen}
- 26/0047 . . . {Specific proteins or polypeptides not covered by groups [A61L 26/0033](#) - [A61L 26/0042](#)}
- 26/0052 . . {Mixtures of macromolecular compounds}
- 26/0057 . {Ingredients of undetermined constitution or reaction products thereof}
- 26/0061 . {Use of materials characterised by their function or physical properties}
- 26/0066 . . {Medicaments; Biocides}
- 26/0071 . . {Plasticisers}
- 26/0076 . . {Sprayable compositions}
- 26/008 . . {Hydrogels or hydrocolloids}
- 26/0085 . . {Porous materials, e.g. foams or sponges}
- 26/009 . . {Materials resorbable by the body}
- 26/0095 . {Composite materials, i.e. containing one material dispersed in a matrix of the same or different material}

**27/00 Materials for {grafts or} prostheses or for coating {grafts or} prostheses (dental prostheses [A61C 13/00](#); shape or structure of prostheses [A61F 2/00](#); use of preparations for artificial teeth [A61K 6/02](#); artificial kidneys [A61M 1/14](#))**

**NOTES**

1. In groups [A61L 27/02](#) - [A61L 27/48](#), the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.
2. When classifying in groups [A61L 27/02](#) - [A61L 27/48](#), classification is also made in groups [A61L 27/50](#) - [A61L 27/60](#) if the use of materials characterised by their function or physical properties is of interest.
3. When classifying in group [A61L 27/00](#), classification is also made in [A61L 33/00](#) if the materials used are antithrombogenic

A61L 27/00 (continued)	4. In group <a href="#">A61L 27/00</a> , the use of specific polymers is indicated using the relevant classification symbols of subclass <a href="#">C08L</a> in the second position of the combination set, e.g. prosthesis based on polyvinylchloride <a href="#">A61L 27/16</a> , <a href="#">C08L 27/06</a>	27/3641	. . {characterised by the site of application in the body ( <a href="#">materials for artificial blood vessels A61L 27/507</a> ; <a href="#">materials for use in artificial skin A61L 27/60</a> )}
27/02	. Inorganic materials	27/3645	. . . {Connective tissue}
27/025	. . {Other specific inorganic materials not covered by <a href="#">A61L 27/04</a> - <a href="#">A61L 27/12</a> }	27/365	. . . . {Bones}
27/04	. . Metals or alloys	27/3654	. . . . {Cartilage, e.g. meniscus}
27/042	. . . {Iron or iron alloys}	27/3658	. . . . . {Intervertebral discs ( <a href="#">mechanical aspects and structures of intervertebral discs A61F 2/442</a> )}
27/045	. . . {Cobalt or cobalt alloys}	27/3662	. . . . . {Ligaments, tendons}
27/047	. . . {Other specific metals or alloys not covered by <a href="#">A61L 27/042</a> - <a href="#">A61L 27/045</a> or <a href="#">A61L 27/06</a> }	27/3666	. . . {Epithelial tissues other than skin}
27/06	. . . Titanium or titanium alloys	27/367	. . . {Muscle tissue, e.g. sphincter}
27/08	. . Carbon {; Graphite}	27/3675	. . . {Nerve tissue, e.g. brain, spinal cord, nerves, dura mater}
27/10	. . Ceramics or glasses	27/3679	. . . {Hollow organs, e.g. bladder, esophagus, urether, uterus, intestine}
27/105	. . . {containing Al <sub>2</sub> O <sub>3</sub> }	27/3683	. . {subjected to a specific treatment prior to implantation, e.g. decellularising, demineralising, grinding, cellular disruption/non-collagenous protein removal, anti-calcification, crosslinking, supercritical fluid extraction, enzyme treatment}
27/12	. . Phosphorus-containing materials, e.g. apatite	27/3687	. . . {characterised by the use of chemical agents in the treatment, e.g. specific enzymes, detergents, capping agents, crosslinkers, anticalcification agents}
27/14	. Macromolecular materials	27/3691	. . . {characterised by physical conditions of the treatment, e.g. applying a compressive force to the composition, pressure cycles, ultrasonic/sonication or microwave treatment, lyophilisation}
27/16	. . obtained by reactions only involving carbon-to-carbon unsaturated bonds	27/3695	. . . {characterised by the function or physical properties of the final product, where no specific conditions are defined to achieve this ( <a href="#">A61L 27/3687</a> , <a href="#">A61L 27/3691</a> take precedence)}
27/165	. . . {Rubbers}	27/38	. . {containing added animal cells ( <a href="#">organs or tissue containing native cells A61L 27/36</a> )}
27/18	. . obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds	27/3804	. . . {characterised by specific cells or progenitors thereof, e.g. fibroblasts, connective tissue cells, kidney cells}
27/20	. . Polysaccharides	27/3808	. . . . {Endothelial cells}
27/22	. . Polypeptides or derivatives thereof {, e.g. degradation products}	27/3813	. . . . {Epithelial cells, e.g. keratinocytes, urothelial cells}
27/222	. . . {Gelatin}	27/3817	. . . . . {Cartilage-forming cells, e.g. pre-chondrocytes}
27/225	. . . {Fibrin; Fibrinogen}	27/3821	. . . . . {Bone-forming cells, e.g. osteoblasts, osteocytes, osteoprogenitor cells}
27/227	. . . {Other specific proteins or polypeptides not covered by <a href="#">A61L 27/222</a> , <a href="#">A61L 27/225</a> or <a href="#">A61L 27/24</a> }	27/3826	. . . . . {Muscle cells, e.g. smooth muscle cells}
27/24	. . . Collagen	27/383	. . . . . {Nerve cells, e.g. dendritic cells, Schwann cells}
27/26	. . Mixtures of macromolecular compounds	27/3834	. . . . . {Cells able to produce different cell types, e.g. hematopoietic stem cells, mesenchymal stem cells, marrow stromal cells, embryonic stem cells}
27/28	. Materials for coating prostheses	27/3839	. . . {characterised by the site of application in the body ( <a href="#">materials for artificial blood vessels A61L 27/507</a> ; <a href="#">materials for use in artificial skin A61L 27/60</a> )}
27/30	. . Inorganic materials	27/3843	. . . . {Connective tissue}
27/303	. . . {Carbon}	27/3847	. . . . . {Bones}
27/306	. . . {Other specific inorganic materials not covered by <a href="#">A61L 27/303</a> - <a href="#">A61L 27/32</a> }	27/3852	. . . . . {Cartilage, e.g. meniscus}
27/32	. . . Phosphorus-containing materials, e.g. apatite		
27/34	. . Macromolecular materials		
27/36	. containing ingredients of undetermined constitution or reaction products thereof {, e.g. transplant tissue, natural bone, extracellular matrix ( <a href="#">isolated natural compounds, e.g. collagen A61L 27/24</a> )}		
27/3604	. . {characterised by the human or animal origin of the biological material, e.g. hair, fascia, fish scales, silk, shellac, pericardium, pleura, renal tissue, amniotic membrane, parenchymal tissue, fetal tissue, muscle tissue, fat tissue, enamel}		
27/3608	. . . {Bone, e.g. demineralised bone matrix [DBM], bone powder}		
27/3612	. . . {Cartilage, synovial fluid}		
27/3616	. . . {Blood, e.g. platelet-rich plasma}		
27/362	. . . {Skin, e.g. dermal papillae}		
27/3625	. . . {Vascular tissue, e.g. heart valves}		
27/3629	. . . {Intestinal tissue, e.g. small intestinal submucosa}		
27/3633	. . . {Extracellular matrix [ECM]}		
27/3637	. . {characterised by the origin of the biological material other than human or animal, e.g. plant extracts, algae}		

27/3856	. . . . . {Intervertebral discs ( <a href="#">mechanical aspects and structures of intervertebral discs A61F 2/442</a> )}	28/0026	. . {Mixtures of macromolecular compounds}
27/386	. . . . . {Ligaments, tendons}	28/003	. {Ingredients of undetermined constitution or reaction products thereof}
27/3865	. . . . . {Dental/periodontal tissues}	28/0034	. {Use of materials characterised by their function or physical properties}
27/3869	. . . . . {Epithelial tissues other than skin}	28/0038	. . {Medicaments; Biocides}
27/3873	. . . . . {Muscle tissue, e.g. sphincter}	28/0042	. . {Plasticisers}
27/3878	. . . . . {Nerve tissue, brain, spinal cord, nerves, dura mater}	28/0046	. . {Sprayable compositions}
27/3882	. . . . . {Hollow organs, e.g. bladder, esophagus, urether, uterus}	28/0049	. . {Hydrogels or hydrocolloids}
27/3886	. . . {comprising two or more cell types}	28/0053	. . {Porous materials, e.g. foams or sponges}
27/3891	. . . . {as distinct cell layers}	28/0057	. . {Materials resorbable by the body}
27/3895	. . . {using specific culture conditions, e.g. stimulating differentiation of stem cells, pulsatile flow conditions}	28/0061	. {Materials for coating}
27/40	. Composite materials, i.e. containing one material dispersed in a matrix of the same or different material	28/0065	. . {Inorganic materials}
27/42	. . having an inorganic matrix	28/0069	. . {Macromolecular materials}
27/422	. . . {of carbon}	28/0073	. {Composite materials, i.e. containing one material dispersed in a matrix of the same or different material}
27/425	. . . {of phosphorus containing material, e.g. apatite}	28/0076	. . {with an inorganic matrix}
27/427	. . . {of other specific inorganic materials not covered by <a href="#">A61L 27/422</a> or <a href="#">A61L 27/425</a> }	28/008	. . {with a macromolecular matrix}
27/44	. . having a macromolecular matrix	28/0084	. . . {containing fillers of carbon}
27/443	. . . {with carbon fillers}	28/0088	. . . {containing fillers of phosphorus-containing inorganic compounds}
27/446	. . . {with other specific inorganic fillers other than those covered by <a href="#">A61L 27/443</a> or <a href="#">A61L 27/46</a> }	28/0092	. . . {containing inorganic fillers not covered by groups <a href="#">A61L 28/0084</a> or <a href="#">A61L 28/0088</a> }
27/46	. . . with phosphorus-containing inorganic fillers	28/0096	. . . {containing macromolecular fillers}
27/48	. . . with macromolecular fillers	<b>29/00</b>	<b>Materials for catheters, {<a href="#">medical tubing, cannulae, or endoscopes</a>} or for coating catheters (<a href="#">shape or structure of catheters A61M 25/00</a>)</b>
27/50	. Materials characterised by their function or physical properties {, e.g. injectable or lubricating compositions, shape-memory materials, surface modified materials}		<b>NOTES</b>
27/502	. . {Plasticizers}		1. In groups <a href="#">A61L 29/02</a> - { <a href="#">A61L 29/126</a> }, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.
27/505	. . {Stabilizers}		2. When classifying in groups <a href="#">A61L 29/02</a> - { <a href="#">A61L 29/126</a> }, classification is also made in groups <a href="#">A61L 29/14</a> - <a href="#">A61L 29/18</a> if the use of materials characterised by their function or physical properties is of interest.
27/507	. . {for artificial blood vessels ( <a href="#">apparatus for applying cells on a blood vessel prosthesis A61F 2/062</a> )}		3. When classifying in group <a href="#">A61L 29/00</a> , classification is also made in <a href="#">A61L 33/00</a> if the materials used are antithrombogenic
27/52	. . Hydrogels or hydrocolloids		4. In group <a href="#">A61L 29/00</a> , the use of specific polymers is indicated using the relevant classification symbols of subclass <a href="#">C08L</a> in the combination set, e.g. a catheter based on polyvinylchloride <a href="#">A61L 29/041</a> , <a href="#">C08L 27/06</a>
27/54	. . Biologically active materials, e.g. therapeutic substances {( <a href="#">A61L 27/227</a> takes precedence)}	29/005	. {Ingredients of undetermined constitution or reaction products thereof}
27/56	. . Porous materials, {e.g. foams or sponges}	29/02	. Inorganic materials
27/58	. . Materials at least partially resorbable by the body	29/04	. Macromolecular materials
27/60	. . Materials for use in artificial skin	29/041	. . {obtained by reactions only involving carbon-to-carbon unsaturated bonds}
<b>28/00</b>	<b>Materials for colostomy devices (adhesives for colostomy devices <a href="#">A61L 24/00</a>)</b>	29/042	. . . {Rubbers}
	<b>NOTE</b>	29/043	. . {Polysaccharides}
	When classifying in group <a href="#">A61L 28/00</a> , classification is also made in <a href="#">A61L 33/00</a> if the materials used are antithrombogenic.	29/044	. . {Proteins; Polypeptides; Degradation products thereof}
28/0003	. {containing inorganic materials}	29/045	. . . {Collagen}
28/0007	. {containing macromolecular materials}	29/046	. . . {Gelatin}
28/0011	. . {obtained by reactions only involving carbon-to-carbon unsaturated bonds}	29/047	. . . {Fibrin; Fibrinogen}
28/0015	. . {obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds}	29/048	. . . {Other specific proteins or polypeptides not covered by <a href="#">A61L 29/045</a> - <a href="#">A61L 29/047</a> }
28/0019	. . {Polysaccharides}		
28/0023	. . {Polypeptides; Proteins; Degradation products thereof}		

- 29/049 . . {Mixtures of macromolecular compounds}
- 29/06 . . obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds
- 29/08 . Materials for coatings
- 29/085 . . {Macromolecular materials}
- 29/10 . . Inorganic materials
- 29/103 . . . {Carbon}
- 29/106 . . . {Inorganic materials other than carbon}
- 29/12 . Composite materials, i.e. containing one material dispersed in a matrix of the same or different material
- 29/123 . . {having an inorganic matrix}
- 29/126 . . {having a macromolecular matrix}
- 29/14 . Materials characterised by their function or physical properties {, e.g. lubricating compositions}
- 29/141 . . {Plasticizers}
- 29/143 . . {Stabilizers}
- 29/145 . . {Hydrogels or hydrocolloids}
- 29/146 . . {Porous materials, e.g. foams or sponges}
- 29/148 . . {Materials at least partially resorbable by the body}
- 29/16 . . Biologically active materials, e.g. therapeutic substances {(A61L 29/048 takes precedence)}
- 29/18 . . Materials at least partially X-ray or laser opaque
- 31/00** **Materials for other surgical articles {, e.g. stents, stent-grafts, shunts, surgical drapes, guide wires, materials for adhesion prevention, occluding devices, surgical gloves, tissue fixation devices (shape or structure of stent-grafts A61F 2/07, of stents A61F 2/82, of surgical gloves A61B 42/00, of surgical drapes A61B 46/00, of occluding devices A61B 17/12022)}**
- NOTES**
1. In groups [A61L 31/02](#) - {[A61L 31/129](#)}, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.
  2. When classifying in groups [A61L 31/02](#) - {[A61L 31/129](#)}, classification is also made in groups [A61L 31/14](#) - [A61L 31/18](#) if the use of materials characterised by their function or physical properties is of interest.
  3. When classifying in group [A61L 31/00](#), classification is also made in [A61L 33/00](#) if the materials used are antithrombogenic
  4. In group [A61L 31/00](#), the use of specific polymers is indicated using the relevant classification symbols of subclass [C08L](#) in the second position of the combination set, e.g. surgical clamp based on polyvinylchloride [A61L 31/048](#), [C08L 27/06](#)
- 31/005 . {Ingredients of undetermined constitution or reaction products thereof}
- 31/02 . Inorganic materials
- 31/022 . . {Metals or alloys}
- 31/024 . . {Carbon; Graphite}
- 31/026 . . {Ceramic or ceramic-like structures, e.g. glasses}
- 31/028 . . {Other inorganic materials not covered by [A61L 31/022](#) - [A61L 31/026](#)}
- 31/04 . Macromolecular materials
- 31/041 . . {Mixtures of macromolecular compounds}
- 31/042 . . {Polysaccharides}
- 31/043 . . {Proteins; Polypeptides; Degradation products thereof}
- 31/044 . . . {Collagen}
- 31/045 . . . {Gelatin}
- 31/046 . . . {Fibrin; Fibrinogen}
- 31/047 . . . {Other specific proteins or polypeptides not covered by [A61L 31/044](#) - [A61L 31/046](#)}
- 31/048 . . {obtained by reactions only involving carbon-to-carbon unsaturated bonds ([A61L 31/041](#) takes precedence)}
- 31/049 . . . {Rubbers}
- 31/06 . . obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds {(A61L 31/041 takes precedence)}
- 31/08 . Materials for coatings
- 31/082 . . {Inorganic materials}
- 31/084 . . . {Carbon; Graphite}
- 31/086 . . . {Phosphorus-containing materials, e.g. apatite}
- 31/088 . . . {Other specific inorganic materials not covered by [A61L 31/084](#) or [A61L 31/086](#)}
- 31/10 . . Macromolecular materials
- 31/12 . Composite materials, i.e. containing one material dispersed in a matrix of the same or different material
- 31/121 . . {having an inorganic matrix}
- 31/122 . . . {of carbon}
- 31/123 . . . {of phosphorus-containing materials, e.g. apatite}
- 31/124 . . . {of other specific inorganic materials not covered by [A61L 31/122](#) or [A61L 31/123](#)}
- 31/125 . . {having a macromolecular matrix}
- 31/126 . . . {containing carbon fillers}
- 31/127 . . . {containing fillers of phosphorus-containing inorganic materials}
- 31/128 . . . {containing other specific inorganic fillers not covered by [A61L 31/126](#) or [A61L 31/127](#)}
- 31/129 . . . {containing macromolecular fillers}
- 31/14 . Materials characterised by their function or physical properties {, e.g. injectable or lubricating compositions, shape-memory materials, surface modified materials}
- 31/141 . . {Plasticizers}
- 31/143 . . {Stabilizers}
- 31/145 . . {Hydrogels or hydrocolloids}
- 31/146 . . {Porous materials, e.g. foams or sponges}
- 31/148 . . {Materials at least partially resorbable by the body}
- 31/16 . . Biologically active materials, e.g. therapeutic substances {(A61L 31/047 takes precedence)}
- 31/18 . . Materials at least partially X-ray or laser opaque
- 33/00** **Antithrombogenic treatment of surgical articles, e.g. sutures, catheters, prostheses, or of articles for the manipulation or conditioning of blood; Materials for such treatment**
- NOTES**
1. In groups [A61L 33/0076](#) - [A61L 33/0094](#) and [A61L 33/02](#) - [A61L 33/122](#), the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.

A61L 33/00 (continued)	2. When classifying in groups <a href="#">A61L 33/02</a> - <a href="#">A61L 33/122</a> , classification is also made in group <a href="#">A61L 33/0005</a> if of interest	<b>2202/00</b>	<b>Aspects relating to methods or apparatus for disinfecting or sterilising materials or objects</b>
	3. In group <a href="#">A61L 33/00</a> , the use of specific polymers is indicated using the relevant classification symbols of subclass <a href="#">C08L</a> in the second position of the combination set, e.g. antithrombogenic treatment with the help of polyvinylchloride <a href="#">A61L 33/064</a> , <a href="#">C08L 27/06</a>	2202/10	. Apparatus features
33/0005	. {Use of materials characterised by their function or physical properties}	2202/11	. . Apparatus for generating biocidal substances, e.g. vaporisers, UV lamps
33/0011	. . {Anticoagulant, e.g. heparin, platelet aggregation inhibitor, fibrinolytic agent, other than enzymes, attached to the substrate}	2202/12	. . Apparatus for isolating biocidal substances from the environment
33/0017	. . . {using a surface active agent}	2202/121	. . . Sealings, e.g. doors, covers, valves, sluices
33/0023	. . . {using a quaternized group or a protonated amine group of the substrate}	2202/122	. . . Chambers for sterilisation
33/0029	. . . {using an intermediate layer of polymer}	2202/123	. . . Connecting means
33/0035	. . . {using a polymer with positively charged atoms in the polymeric backbone, e.g. ionenes}	2202/13	. . Biocide decomposition means, e.g. catalysts, sorbents
33/0041	. . . {characterised by the choice of an antithrombotic agent other than heparin ( <a href="#">heparinoid A61L 33/08</a> ; <a href="#">polypeptides A61L 33/12</a> )}	2202/14	. . Means for controlling sterilisation processes, data processing, presentation and storage means, e.g. sensors, controllers, programs
33/0047	. . {Enzymes, e.g. urokinase, streptokinase}	2202/15	. . Biocide distribution means, e.g. nozzles, pumps, manifolds, fans, baffles, sprayers
33/0052	. . {Plasticizers}	2202/16	. . Mobile applications, e.g. portable devices, trailers, devices mounted on vehicles
33/0058	. . {Stabilizers}	2202/17	. . Combination with washing or cleaning means
33/0064	. . {Hydrogels or hydrocolloids}	2202/18	. . Aseptic storing means
33/007	. . {Porous materials, e.g. foams or sponges}	2202/181	. . . Flexible packaging means, e.g. permeable membranes, paper
33/0076	. {Chemical modification of the substrate}	2202/182	. . . Rigid packaging means
33/0082	. . {by reacting with an organic compound other than heparin}	2202/20	. Targets to be treated
33/0088	. . {by grafting of a monomer onto the substrate}	2202/21	. . Pharmaceuticals, e.g. medicaments, artificial body parts
33/0094	. {Physical treatment, e.g. plasma treatment}	2202/22	. . Blood or products thereof
33/02	. Use of inorganic materials	2202/23	. . Containers, e.g. vials, bottles, syringes, mail
33/022	. . {Metal or alloys}	2202/24	. . Medical instruments, e.g. endoscopes, catheters, sharps
33/025	. . {Carbon; Graphite}	2202/25	. . Rooms in buildings, passenger compartments
33/027	. . {Other specific inorganic materials not covered by <a href="#">A61L 33/022</a> or <a href="#">A61L 33/025</a> }	2202/26	. . Textiles, e.g. towels, beds, cloths
33/04	. Use of organic materials, e.g. acetylsalicylic acid	<b>2209/00</b>	<b>Aspects relating to disinfection, sterilisation or deodorisation of air</b>
33/06	. Use of macromolecular materials ( <a href="#">grafting of a monomer onto the substrate A61L 33/0088</a> )	2209/10	. Apparatus features
33/062	. . {Mixtures of macromolecular compounds}	2209/11	. . Apparatus for controlling air treatment
33/064	. . {obtained by reactions only involving carbon-to-carbon unsaturated bonds ( <a href="#">A61L 33/062</a> takes precedence)}	2209/111	. . . Sensor means, e.g. motion, brightness, scent, contaminant sensors
33/066	. . . {Rubbers}	2209/12	. . Lighting means
33/068	. . {obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds ( <a href="#">A61L 33/062</a> takes precedence)}	2209/13	. . Dispensing or storing means for active compounds
33/08	. . Polysaccharides	2209/131	. . . Semi-permeable membranes
33/12	. . Polypeptides, proteins or derivatives thereof {, e.g. degradation products thereof}	2209/132	. . . Piezo or ultrasonic elements for dispensing
33/122	. . . {Collagen}	2209/133	. . . Replaceable cartridges, refills
33/124	. . . {Gelatin}	2209/134	. . . Distributing means, e.g. baffles, valves, manifolds, nozzles
33/126	. . . {Fibrin}	2209/135	. . . Vaporisers for active components
33/128	. . . {Other specific proteins or polypeptides not covered by <a href="#">A61L 33/122</a> - <a href="#">A61L 33/126</a> }	2209/14	. . Filtering means
33/18	. Use of ingredients of undetermined constitution or reaction products thereof	2209/15	. . Supporting means, e.g. stands, hooks, holes for hanging
		2209/16	. . Connections to a HVAC unit
		2209/20	. Method-related aspects
		2209/21	. . Use of chemical compounds for treating air or the like
		2209/211	. . . Use of hydrogen peroxide, liquid and vaporous
		2209/212	. . . Use of ozone, e.g. generated by UV radiation or electrical discharge
		2209/213	. . . Use of electrochemically treated water, e.g. electrolysed water or water treated by electrical discharge



- 2209/22 . . Treatment by sorption, e.g. absorption, adsorption, chemisorption, scrubbing, wet cleaning
- 2300/00 Biologically active materials used in bandages, wound dressings, absorbent pads or medical devices**
- 2300/10 . containing or releasing inorganic materials
- 2300/102 . . Metals or metal compounds, e.g. salts such as bicarbonates, carbonates, oxides, zeolites, silicates
- 2300/104 . . . Silver, e.g. silver sulfadiazine
- 2300/106 . . Halogens or compounds thereof, e.g. iodine, chlorite
- 2300/108 . . Elemental carbon, e.g. charcoal
- 2300/11 . . Peroxy compounds, peroxides, e.g. hydrogen peroxide
- 2300/112 . . Phosphorus-containing compounds, e.g. phosphates, phosphonates
- 2300/114 . . Nitric oxide, i.e. NO
- 2300/20 . containing or releasing organic materials
- 2300/202 . . with halogen atoms, e.g. triclosan, povidone-iodine
- 2300/204 . . with nitrogen-containing functional groups, e.g. aminoxides, nitriles, guanidines
- 2300/206 . . . Biguanides, e.g. chlorhexidine
- 2300/208 . . . Quaternary ammonium compounds
- 2300/21 . . Acids
- 2300/212 . . . Peroxy acids, peracids
- 2300/214 . . . Amino acids
- 2300/216 . . with other specific functional groups, e.g. aldehydes, ketones, phenols, quaternary phosphonium groups
- 2300/22 . . Lipids, fatty acids, e.g. prostaglandins, oils, fats, waxes
- 2300/222 . . . Steroids, e.g. corticosteroids
- 2300/224 . . containing metals, e.g. porphyrins, vitamin B12
- 2300/23 . . Carbohydrates
- 2300/232 . . . Monosaccharides, disaccharides, polysaccharides, lipopolysaccharides
- 2300/236 . . . Glycosaminoglycans, e.g. heparin, hyaluronic acid, chondroitin
- 2300/25 . . Peptides having up to 20 amino acids in a defined sequence
- 2300/252 . . Polypeptides, proteins, e.g. glycoproteins, lipoproteins, cytokines
- 2300/254 . . . Enzymes, proenzymes
- 2300/256 . . . Antibodies, e.g. immunoglobulins, vaccines
- 2300/258 . . Genetic materials, DNA, RNA, genes, vectors, e.g. plasmids
- 2300/30 . . Compounds of undetermined constitution extracted from natural sources, e.g. Aloe Vera
- 2300/40 . characterised by a specific therapeutic activity or mode of action
- 2300/402 . . Anaesthetics, analgesics, e.g. lidocaine
- 2300/404 . . Biocides, antimicrobial agents, antiseptic agents
- 2300/406 . . . Antibiotics
- 2300/408 . . . Virucides, spermicides
- 2300/41 . . Anti-inflammatory agents, e.g. NSAIDs
- 2300/412 . . Tissue-regenerating or healing or proliferative agents
- 2300/414 . . . Growth factors
- 2300/416 . . Anti-neoplastic or anti-proliferative or anti-restenosis or anti-angiogenic agents, e.g. paclitaxel, sirolimus
- 2300/418 . . Agents promoting blood coagulation, blood-clotting agents, embolising agents
- 2300/42 . . Anti-thrombotic agents, anticoagulants, anti-platelet agents
- 2300/422 . . Anti-atherosclerotic agents
- 2300/424 . . Anti-adhesion agents
- 2300/426 . . Immunomodulating agents, i.e. cytokines, interleukins, interferons
- 2300/428 . . Vitamins, e.g. tocopherol, riboflavin
- 2300/43 . . Hormones, e.g. dexamethasone
- 2300/432 . . Inhibitors, antagonists  
([A61L 2300/402](#) - [A61L 2300/43](#) take precedence)
- 2300/434 . . . of enzymes
- 2300/436 . . . of receptors
- 2300/438 . . Antigens
- 2300/44 . . Radioisotopes, radionuclides
- 2300/442 . . Colorants, dyes
- 2300/45 . . Mixtures of two or more drugs, e.g. synergistic mixtures
- 2300/452 . . Lubricants
- 2300/60 . characterised by a special physical form
- 2300/602 . . Type of release, e.g. controlled, sustained, slow
- 2300/604 . . . Biodegradation
- 2300/606 . . Coatings
- 2300/608 . . . having two or more layers
- 2300/61 . . . . containing two or more active agents in different layers
- 2300/62 . . Encapsulated active agents, e.g. emulsified droplets
- 2300/622 . . . Microcapsules
- 2300/624 . . . Nanocapsules
- 2300/626 . . . Liposomes, micelles, vesicles
- 2300/63 . . Crystals
- 2300/64 . . Animal cells
- 2300/80 . characterised by a special chemical form
- 2300/802 . . Additives, excipients, e.g. cyclodextrins, fatty acids, surfactants
- 2400/00 Materials characterised by their function or physical properties**
- 2400/02 . Treatment of implants to prevent calcification or mineralisation in vivo
- 2400/04 . Materials for stopping bleeding
- 2400/06 . Flowable or injectable implant compositions
- 2400/08 . Methods for forming porous structures using a negative form which is filled and then removed by pyrolysis or dissolution
- 2400/10 . Materials for lubricating medical devices
- 2400/12 . Nanosized materials, e.g. nanofibres, nanoparticles, nanowires, nanotubes; Nanostructured surfaces
- 2400/14 . Adhesives for ostomy devices
- 2400/16 . Materials with shape-memory or superelastic properties
- 2400/18 . Modification of implant surfaces in order to improve biocompatibility, cell growth, fixation of biomolecules, e.g. plasma treatment
- 2420/00 Materials or methods for coatings medical devices**
- 2420/02 . Methods for coating medical devices

## A61L

- 2420/04 . Coatings containing a composite material such as inorganic/organic, i.e. material comprising different phases
- 2420/06 . Coatings containing a mixture of two or more compounds
- 2420/08 . Coatings comprising two or more layers
- 2430/00 Materials or treatment for tissue regeneration**
- 2430/02 . for reconstruction of bones; weight-bearing implants
- 2430/04 . for mammary reconstruction
- 2430/06 . for cartilage reconstruction, e.g. meniscus
- 2430/10 . for reconstruction of tendons or ligaments
- 2430/12 . for dental implants or prostheses
- 2430/14 . for ear reconstruction or ear implants, e.g. implantable hearing aids
- 2430/16 . for reconstruction of eye parts, e.g. intraocular lens, cornea
- 2430/18 . for hair reconstruction
- 2430/20 . for reconstruction of the heart, e.g. heart valves
- 2430/22 . for reconstruction of hollow organs, e.g. bladder, esophagus, urether, uterus
- 2430/24 . for joint reconstruction
- 2430/26 . for kidney reconstruction
- 2430/28 . for liver reconstruction
- 2430/30 . for muscle reconstruction
- 2430/32 . for nerve reconstruction
- 2430/34 . for soft tissue reconstruction
- 2430/36 . for embolization or occlusion, e.g. vaso-occlusive compositions or devices ([artificial blood vessels A61L 27/507](#))
- 2430/38 . for reconstruction of the spine, vertebrae or intervertebral discs
- 2430/40 . Preparation and treatment of biological tissue for implantation, e.g. decellularisation, cross-linking