

CPC**COOPERATIVE PATENT CLASSIFICATION****A61F**

FILTERS IMPLANTABLE INTO BLOOD VESSELS; PROSTHESES; DEVICES PROVIDING PATENCY TO, OR PREVENTING COLLAPSING OF, TUBULAR STRUCTURES OF THE BODY, E.G. STENTS; ORTHOPAEDIC, NURSING OR CONTRACEPTIVE DEVICES; FOMENTATION; TREATMENT OR PROTECTION OF EYES OR EARS; BANDAGES, DRESSINGS OR ABSORBENT PADS; FIRST-AID KITS ([dental prosthetics A61C](#))

WARNING

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

[A61F 2/48](#) covered by [A61F 2/02](#)
[A61F 2/56](#) covered by [A61F 2/54](#)
[A61F 2/62](#) covered by [A61F 2/60](#)
[A61F 2/70](#) covered by [A61F 2/68](#), [A61F 2/72](#)
[A61F 2/74](#) covered by [A61F 2/68](#)
[A61F 5/045](#) covered by [A61G 13/12](#)
[A61F 5/052](#) covered by [A61F 5/05](#)
[A61F 5/447](#) covered by [A61F 5/445](#)
[A61F 5/452](#) covered by [A61F 5/451](#)
[A61F 5/457](#) covered by [A61F 5/451](#)
[A61F 5/458](#) covered by [A61F 5/451](#)
[A61F 6/10](#) covered by [A61F 6/08](#)
[A61F 9/01](#) covered by [A61F 9/00802](#)–[A61F 9/00825](#)
[A61F 9/011](#) covered by [A61F 9/00802](#)–[A61F 9/00825](#)
[A61F 13/22](#) covered by [A61F 13/206](#)
[A61F 13/24](#) covered by [A61F 13/2037](#)
[A61F 13/30](#) covered by [A61F 13/26](#)
[A61F 13/32](#) covered by [A61F 13/26](#)
[A61F 13/40](#) covered by [A61M 35/006](#)

Filters; Devices providing patency to tubular structures; Prostheses; Accessories**A61F 2/00**

Filters implantable into blood vessels; Prostheses, i.e. artificial substitutes or replacements for parts of the body; Appliances for connecting them with the body; Devices providing patency to, or preventing collapsing of, tubular structures of the body, e.g. stents (as cosmetic articles, see the relevant subclasses, e.g. wigs, hair pieces, [A41G 3/00](#), [A41G 5/00](#), artificial nails [A45D 31/00](#); dental prostheses [A61C 13/00](#); materials for prostheses [A61L 27/00](#); artificial hearts [A61M 1/10](#); artificial kidneys [A61M 1/14](#))

WARNING

Groups [A61F 2/07](#), [A61F 2/844](#) - [A61F 2/97](#) correspond to IPC2013.01

- [A61F 2/0004](#) . {Closure means for urethra or rectum, i.e. anti-incontinence devices or support slings against pelvic prolapse}
- [A61F 2/0009](#) . . {placed in or outside the body opening close to the surface of the body (plugging an opening in the wall of a hollow or tubular organ [A61B 17/0057](#))}
- [A61F 2/0013](#) . . . {inflatable}
- [A61F 2/0018](#) . . . {magnetic}
- [A61F 2/0022](#) . . {placed deep in the body opening (occluding blood vessels by internal devices [A61B 17/12022](#))}
- [A61F 2/0027](#) . . . {inflatable}
- [A61F 2/0031](#) . . {for constricting the lumen; Support slings for the urethra}
- [A61F 2/0036](#) . . . {implantable ([A61F 2/0018](#) takes precedence)}
- [A61F 2/004](#) {inflatable}
- [A61F 2/0045](#) {Support slings}
- [A61F 2/005](#) . . . {with pressure applied to urethra by an element placed in the vagina}
- [A61F 2/0054](#) . . . {with pressure applied to urethra by an element placed around the penis, e.g. penis clamp}
- [A61F 2/0059](#) . {Cosmetic or alloplastic implants ([A61F 2/10](#) to [A61F 2/16](#), [A61F 2/28](#) take precedence)}
- [A61F 2/0063](#) . {Implantable repair or support meshes, e.g. hernia meshes}
- [A61F 2002/0068](#) . . {having a special mesh pattern}
- [A61F 2002/0072](#) . . {Delivery tools therefor}
- [A61F 2/0077](#) . {Special surfaces of prostheses, e.g. for improving ingrowth ([A61F 2/30767](#) takes precedence)}
- [A61F 2002/0081](#) . . {directly machined on the prosthetic surface, e.g. holes, grooves ([A61F 2/30771](#) takes precedence)}
- [A61F 2002/0086](#) . . {for preferentially controlling or promoting the growth of specific types of cells or tissues (of bone tissue onto implantable joints [A61F 2002/3093](#))}
- [A61F 2002/009](#) . . {for hindering or preventing attachment of biological tissue (of bone tissue onto implantable joints [A61F 2002/30932](#))}
- [A61F 2002/0091](#) . . . {Having cellular growth inhibitors}

WARNING

A61F 2002/0091
(continued)

Group [A61F 2002/0091](#) is incomplete pending reclassification of documents from groups [A61F 2002/009](#).

Groups [A61F 2002/009](#) and [A61F 2002/0091](#) should be considered in order to perform a complete search.

- A61F 2/0095
 - {Packages or dispensers for prostheses or other implants (for intraocular lenses [A61F 2/1691](#); for dental surgery [A61C 19/02](#))}
- A61F 2/01
 - Filters implantable into blood vessels {(filters used as gripping instruments [A61B 17/22031](#))}
- A61F 2002/011
 - . {Instruments for their placement or removal}
- A61F 2/013
 - . {Distal protection devices, i.e. devices placed distally in combination with another endovascular procedure, e.g. angioplasty or stenting}
- A61F 2002/015
 - . . {Stop means therefor}
- A61F 2002/016
 - . {made from wire-like elements}
- A61F 2002/018
 - . {made from tubes or sheets of material, e.g. by etching or laser-cutting}
- A61F 2/02
 - Prostheses implantable into the body {(closure means for urethra or rectum or for artificial body openings therefor [A61F 2/0004](#))}
- A61F 2/022
 - . {Artificial gland structures using bioreactors (hemodialysis [A61M 1/16](#); hemofiltration [A61M 1/34](#); other extracorporeal blood treatment [A61M 1/36](#))}
- A61F 2/04
 - . Hollow or tubular parts of organs, e.g. bladders, tracheae, bronchi or bile ducts ([A61F 2/18](#), [A61F 2/20](#) take precedence; devices, other than stent-grafts, providing patency to, or preventing collapsing of, tubular structures of the body other than stent-grafts, e.g. stents [A61F 2/82](#); instruments specially adapted for placement or removal of stents or stent-grafts [A61F 2/95](#))
- A61F 2002/041
 - . . . {Bile ducts}
- A61F 2/042
 - . . . {Urinary bladders}
- A61F 2002/043
 - . . . {Bronchi}
- A61F 2002/044
 - . . . {Oesophagi or esophagi or gullets}
- A61F 2002/045
 - . . . {Stomach, intestines}
- A61F 2002/046
 - . . . {Tracheae}
- A61F 2002/047
 - . . . {Urethrae}
- A61F 2002/048
 - . . . {Ureters}
- A61F 2/06
 - . . . Blood vessels
- A61F 2002/061
 - {provided with means for allowing access to secondary lumens}
- A61F 2/062
 - {Apparatus for the production of blood vessels made from natural tissue or with layers of living cells (prostheses made from natural tissue or living cells [A61L 27/507](#))}
- A61F 2/064
 - {with special features to facilitate anastomotic coupling (anastomosis of natural blood vessels [A61B 17/11](#))}
- A61F 2002/065
 - {Y-shaped blood vessels}
- A61F 2002/067
 - {modular}
- A61F 2002/068
 - {Modifying the blood flow model, e.g. by diffuser or deflector}
- A61F 2/07
 - Stent-grafts
- A61F 2002/072
 - {Encapsulated stents, e.g. wire or whole stent embedded in lining}

A61F 2002/075	. . . . .	{the stent being loosely attached to the graft material, e.g. by stitching}
A61F 2002/077	. . . . .	{having means to fill the space between stent-graft and aneurysm wall, e.g. a sleeve}
A61F 2/08	. . .	Muscles; Tendons; Ligaments {(sutures A61B 17/04)}
A61F 2/0805	. . .	{Implements for inserting tendons or ligaments}
A61F 2/0811	. . .	{Fixation devices for tendons or ligaments}
A61F 2002/0817	. . . . .	{Structure of the anchor}
A61F 2002/0823	. . . . .	{Modular anchors comprising a plurality of separate parts}
A61F 2002/0829	. . . . .	{without deformation of anchor parts, e.g. fixation screws on bone surface, extending barbs, cams, butterflies, spring-loaded pins}
A61F 2002/0835	. . . . .	{with deformation of anchor parts, e.g. expansion of dowel by set screw}
A61F 2002/0841	. . . . .	{Longitudinal channel for insertion tool running through the whole tendon anchor, e.g. for accommodating bone drill, guidewire}
A61F 2002/0847	. . . . .	{Mode of fixation of anchor to tendon or ligament}
A61F 2002/0852	. . . . .	{Fixation of a loop or U-turn, e.g. eyelets, anchor having multiple holes}
A61F 2002/0858	. . . . .	{Fixation of tendon or ligament between anchor and bone, e.g. interference screws, wedges}
A61F 2002/0864	. . . . .	{Fixation of tendon or ligament between anchor elements, e.g. by additional screws in the anchor, anchor crimped around tendon}
A61F 2002/087	. . . . .	{Anchor integrated into tendons, e.g. bone blocks, integrated rings}
A61F 2002/0876	. . . . .	{Position of anchor in respect to the bone}
A61F 2002/0882	. . . . .	{Anchor in or on top of a bone tunnel, i.e. a hole running through the entire bone}
A61F 2002/0888	. . . . .	{Anchor in or on a blind hole or on the bone surface without formation of a tunnel}
A61F 2002/0894	. . .	{Muscles (non-implantable A61F 2002/5066)}
A61F 2/10	. .	Hair or skin implants
A61F 2/105	. . .	{Skin implants, e.g. artificial skin}
A61F 2/12	. .	Mammary prostheses and implants
A61F 2/14	. .	Eye parts, e.g. lenses, corneal implants; {Implanting instruments specially adapted therefor}; Artificial eyes
A61F 2/141	. . .	{Artificial eyes}
A61F 2/142	. . .	{Cornea, e.g. artificial corneae, keratoprotheses or corneal implants for repair of defective corneal tissue}
A61F 2/145	. . .	{Corneal inlays, onlays, or lenses for refractive correction}

WARNING

Group [A61F 2/145](#) is impacted by reclassification into groups [A61F 2/1451](#) and [A61F 2/1453](#).

Groups [A61F 2/145](#), [A61F 2/1451](#), and [A61F 2/1453](#) should be considered in order to perform a complete search.

- A61F 2/1451 {Inlays or onlays}
- A61F 2/1453 {Corneal lenses connected to distinct attachment means}
- A61F 2/147 . . . {Implants to be inserted in the stroma for refractive correction, e.g. ring-like implants}
- A61F 2/148 . . . {Implantation instruments specially adapted therefor}
- A61F 2/15 . . . {Implant having one or more holes, e.g. for nutrient transport, for facilitating handling}

WARNING

Group [A61F 2/15](#) is incomplete pending reclassification of documents from group [A61F 2/14](#).

Groups [A61F 2/14](#) and [A61F 2/15](#) should be considered in order to perform a complete search.

- A61F 2/16 . . . Intraocular lenses

WARNING

Group [A61F 2/16](#) is impacted by reclassification into groups [A61F 2/1601](#), [A61F 2/16015](#), [A61F 2002/1696](#), and [A61F 2002/16965](#).

All groups listed should be considered in order to perform a complete search.

- A61F 2/1601 {Lens body having features to facilitate aqueous fluid flow across the intraocular lens, e.g. for pressure equalization or nutrient delivery}
- A61F 2/16015 {Lens having spacers for providing a gap between the posterior capsule and a posterior surface of the intraocular lens}
- A61F 2/1602 {Corrective lenses for use in addition to the natural lenses of the eyes or for pseudo-phakic eyes}
- A61F 2/1605 {Anterior chamber lenses for use in addition to the natural lenses of the eyes, e.g. iris fixated, iris floating}
- A61F 2/1608 {Iris fixated, e.g. by clamping iris tissue, by suturing to the iris}
- A61F 2/161 {Posterior chamber lenses for use in addition to the natural lenses of the eyes}
- A61F 2/1613 {having special lens configurations, e.g. multipart lenses; having particular optical properties, e.g. pseudo-accommodative lenses, lenses having aberration corrections, diffractive lenses, lenses for variably absorbing electromagnetic radiation, lenses having variable focus}
- A61F 2/1616 {Pseudo-accommodative, e.g. multifocal or enabling monovision}
- A61F 2/1618 {Multifocal lenses}
- A61F 2/1621 {enabling correction for monovision}
- A61F 2/1624 {having adjustable focus; power activated variable focus means, e.g. mechanically or electrically by the ciliary muscle or from the outside}
- A61F 2/1627 {for changing index of refraction e.g. by external means or by tilting}
- A61F 2/1629 {for changing longitudinal position, i.e. along the visual axis when implanted}

A61F 2/1632	. . . . .	{for changing radial position, i.e. perpendicularly to the visual axis when implanted}
A61F 2/1635	. . . . .	{for changing shape}
A61F 2/1637	. . . . .	{Correcting aberrations caused by inhomogeneities; correcting intrinsic aberrations, e.g. of the cornea, of the surface of the natural lens, aspheric, cylindrical, toric lenses}
A61F 2/164	. . . . .	{Aspheric lenses}
A61F 2/1643	. . . . .	{Cylindrical lenses}
A61F 2/1645	. . . . .	{Toric lenses}
A61F 2/1648	. . . . .	{Multipart lenses}
A61F 2/1651	. . . . .	{Multipart lenses comprising a telescope}
A61F 2/1654	. . . . .	{Diffractive lenses}
A61F 2/1656	. . . . .	{Fresnel lenses, prisms or plates}
A61F 2/1659	. . . . .	{having variable absorption coefficient for electromagnetic radiation, e.g. photochromic lenses}
A61F 2/1662	. . . . .	{Instruments for inserting intraocular lenses into the eye}
A61F 2/1664	. . . . .	{for manual insertion during surgery, e.g. forceps-like instruments}
A61F 2/1667	. . . . .	{with rotatable plungers}
A61F 2/167	. . . . .	{with pushable plungers}
A61F 2/1672	. . . . .	{with a two-stage plunger, e.g. rotatable and pushable or rotatable at different speeds}
A61F 2/1675	. . . . .	{with a lubricated inner surface, e.g. the lubricant being coated on the inner surface or being injected through a port}
A61F 2/1678	. . . . .	{with a separate cartridge or other lens setting part for storage of a lens, e.g. preloadable for shipping}
A61F 2002/1681	. . . . .	{having supporting structure for lens, e.g. haptics}

WARNING

Group [A61F 2002/1681](#) is impacted by reclassification into groups [A61F 2002/1682](#), [A61F 2002/169](#), [A61F 2002/16901](#), [A61F 2002/16902](#), [A61F 2002/16903](#), [A61F 2002/16905](#), [A61F 2002/169051](#), [A61F 2002/169052](#), and [A61F 2002/169053](#).

All groups listed should be considered in order to perform a complete search.

A61F 2002/1682	. . . . .	{having mechanical force transfer mechanism to the lens, e.g. for accommodating lenses}
A61F 2002/1683	. . . . .	{having filiform haptics}
A61F 2002/1686	. . . . .	{Securing a filiform haptic to a lens body}
A61F 2002/1689	. . . . .	{having plate-haptics}
A61F 2002/169	. . . . .	{Surrounding optic}
A61F 2002/16901	. . . . .	{Supporting structure conforms to shape of capsular bag}
A61F 2002/16902	. . . . .	{Separable from intraocular lens}
A61F 2002/16903	. . . . .	{Having means to temporarily stabilize haptic}

A61F 2002/16905	. . . . .	{Having means on lens to reduce overall dimension of lens for insertion into small incision}
A61F 2002/169051	. . . . .	{Segmented zones}
A61F 2002/169052	. . . . .	{Segments slide}
A61F 2002/169053	. . . . .	{Segments fold}
A61F 2/1691	. . . . .	{Packages or dispensers for intraocular lenses (for contact lenses A45C 11/005)}
A61F 2/1694	. . . . .	{Capsular bag spreaders therefor}
A61F 2002/1696	. . . . .	{Having structure for blocking or reducing amount of light transmitted, e.g. glare reduction}
A61F 2002/16965	. . . . .	{Lens includes ultraviolet absorber}
A61F 2002/1699	. . . . .	{Additional features not otherwise provided for}
A61F 2/18	. . . . .	Internal ear or nose parts, e.g. ear-drums {(implants for middle ear ventilation or drainage A61F 11/002)}
A61F 2002/183	. . . . .	{Ear parts}
A61F 2/186	. . . . .	{Nose parts}
A61F 2/20	. . . . .	{Epiglottis}; Larynxes; Tracheae combined with larynxes or for use therewith (tracheae, bronchi per se A61F 2/04 ; {tracheostomy tubes A61M 16/0465 })
A61F 2/203	. . . . .	{comprising an air passage from trachea to oesophagus or to pharynx; Artificial epiglottis}
A61F 2002/206	. . . . .	{Speech aids with external actuators, e.g. electrical larynxes}
A61F 2/24	. . . . .	Heart valves {; Vascular valves, e.g. venous valves; Heart implants, e.g. passive devices for improving the function of the native valve or the heart muscle; Transmyocardial revascularisation [TMR] devices}
A61F 2/2403	. . . . .	{with pivoting rigid closure members (check valves with hinged closure members in general F16K 15/03)}
A61F 2/2406	. . . . .	{without fixed axis}
A61F 2/2409	. . . . .	{Support rings therefor, e.g. for connecting valves to tissue (annuloplasty rings A61F 2/2442)}
A61F 2/2412	. . . . .	{with soft flexible valve members, e.g. tissue valves shaped like natural valves (check valves with flexible valve members in general F16K 15/14)}
A61F 2/2415	. . . . .	{Manufacturing methods}
A61F 2/2418	. . . . .	{Scaffolds therefor, e.g. support stents}
A61F 2/2421	. . . . .	{with non-pivoting rigid closure members}
A61F 2/2424	. . . . .	{Ball valves}
A61F 2/2427	. . . . .	{Devices for manipulating or deploying heart valves during implantation}
A61F 2/243	. . . . .	{Deployment by mechanical expansion}
A61F 2/2433	. . . . .	{using balloon catheter}
A61F 2/2436	. . . . .	{Deployment by retracting a sheath}
A61F 2/2439	. . . . .	{Expansion controlled by filaments}
A61F 2/2442	. . . . .	{Annuloplasty rings or inserts for correcting the valve shape; Implants for improving the function of a native heart valve}
A61F 2/2445	. . . . .	{Annuloplasty rings in direct contact with the valve annulus}

A61F 2/2448	. . . . .	{D-shaped rings}
A61F 2/2451	. . . . .	{Inserts in the coronary sinus for correcting the valve shape}
A61F 2/2454	. . . . .	{Means for preventing inversion of the valve leaflets, e.g. chordae tendineae prostheses}
A61F 2/2457	. . . . .	{Chordae tendineae prostheses}
A61F 2/246	. . . . .	{Devices for obstructing a leak through a native valve in a closed condition}
A61F 2/2463	. . . . .	{Implants forming part of the valve leaflets}
A61F 2/2466	. . . . .	{Delivery devices therefor}
A61F 2/2469	. . . . .	{with resilient valve members, e.g. conical spiral}
A61F 2/2472	. . . . .	{Devices for testing}
A61F 2/2475	. . . . .	{Venous valves}
A61F 2/2478	. . . . .	{Passive devices for improving the function of the heart muscle, i.e. devices for reshaping the external surface of the heart, e.g. bags, strips or bands}
A61F 2/2481	. . . . .	{Devices outside the heart wall, e.g. bags, strips or bands}
A61F 2002/2484	. . . . .	{Delivery devices therefor}
A61F 2/2487	. . . . .	{Devices within the heart chamber, e.g. splints}
A61F 2002/249	. . . . .	{Device completely embedded in the heart wall}
A61F 2/2493	. . . . .	{Transmyocardial revascularisation [TMR] devices}
A61F 2/2496	. . . . .	{Devices for determining the dimensions of the prosthetic valve to be implanted, e.g. templates, sizers}
A61F 2/26	. . . . .	Penis implants
A61F 2/28	. . . . .	Bones ({A61F 2/42 takes precedence}; joints A61F 2/30; {means for introducing bone substitute or for implanting bone graft implants A61F 2/4601; devices for grinding or milling bone material A61F 2/4644})
A61F 2/2803	. . . . .	{for mandibular reconstruction (temporo-mandibular joints A61F 2/3099; bone plates for the jaw A61B 17/8071)}
A61F 2002/2807	. . . . .	{Chin implants}
A61F 2002/281	. . . . .	{Gonial implants}
A61F 2/2814	. . . . .	{Bone stump caps}
A61F 2002/2817	. . . . .	{Bone stimulation by chemical reactions or by osteogenic or biological products for enhancing ossification, e.g. by bone morphogenetic or morphogenic proteins [BMP] or by transforming growth factors [TGF]}
A61F 2002/2821	. . . . .	{Bone stimulation by electromagnetic fields or electric current for enhancing ossification}
A61F 2002/2825	. . . . .	{Femur}
A61F 2002/2828	. . . . .	{Femoral head}
A61F 2002/2832	. . . . .	{Femoral neck}
A61F 2002/2835	. . . . .	{Bone graft implants for filling a bony defect or an endoprosthesis cavity}
A61F 2002/2839	. . . . .	{Bone plugs or bone graft dowels}
A61F 2002/2842	. . . . .	{Bone marrow grafts}

A61F 2/2846	. . .	{Support means for bone substitute or for bone graft implants, e.g. membranes or plates for covering bone defects (nets or sleeves applied to surface of endoprotheses A61F 2/30907 ; bone plates A61B 17/80 ; bone regeneration in dental surgery A61C 8/0006)}
A61F 2002/285	. . . .	{Fixation appliances for attaching bone substitute support means to underlying bone}
A61F 2002/2853	. . .	{Humerus}
A61F 2/2857	. . .	{for cadavers (devices for autopsy A61B 16/00)}
A61F 2002/286	. . .	{Bone stimulation by mechanical vibrations for enhancing ossification}
A61F 2002/2864	. . . .	{by ultrasonic or acoustic vibrations}
A61F 2002/2867	. . .	{Bone marrow}
A61F 2002/2871	. . .	{Radius}
A61F 2/2875	. . .	{Skull or cranium (A61F 2/2803 and A61F 2/3099 take precedence)}
A61F 2002/2878	. . . .	{for orbital repair}
A61F 2002/2882	. . . .	{Malar or zygomatic implants}
A61F 2002/2885	. . . .	{Paranasal implants}
A61F 2002/2889	. . . .	{Maxillary, premaxillary or molar implants}
A61F 2002/2892	. . .	{Tibia}
A61F 2002/2896	. . .	{Ulna}
A61F 2/30	. .	Joints
A61F 2002/30001	. . .	{Additional features of subject-matter classified in A61F 2/28 , A61F 2/30 and subgroups thereof}
A61F 2002/30003	. . . .	{Material related properties of the prosthesis or of a coating on the prosthesis}
A61F 2002/30004	. . . . .	{The prosthesis made from materials having different values of a given property at different locations within the same prosthesis}
A61F 2002/30006	. . . . .	{differing in density or specific weight}
A61F 2002/30008	. . . . .	{differing in yarn density}
A61F 2002/30009	. . . . .	{differing in fibre orientations}
A61F 2002/30011	. . . . .	{differing in porosity}
A61F 2002/30013	. . . . .	{made from both porous and non-porous parts, e.g. adjacent parts}
A61F 2002/30014	. . . . .	{differing in elasticity, stiffness or compressibility}
A61F 2002/30016	. . . . .	{differing in hardness, e.g. Vickers, Shore, Brinell}
A61F 2002/30018	. . . . .	{differing in bending or flexure capacity}
A61F 2002/30019	. . . . .	{differing in mechanical expandability, e.g. in mechanical, self- or balloon expandability}
A61F 2002/30021	. . . . .	{differing in brittleness}
A61F 2002/30023	. . . . .	{differing in viscosity}
A61F 2002/30024	. . . . .	{differing in coefficient of friction}
A61F 2002/30026	. . . . .	{differing in wear resistance}
A61F 2002/30028	. . . . .	{differing in tissue ingrowth capacity, e.g. made from both ingrowth-promoting and ingrowth-preventing parts}

A61F 2002/30029	. . . . .	{differing in bone ingrowth capacity}
A61F 2002/30031	. . . . .	{differing in wettability, e.g. in hydrophilic or hydrophobic behaviours}
A61F 2002/30032	. . . . .	{differing in absorbability or resorbability, i.e. in absorption or resorption time}
A61F 2002/30034	. . . . .	{made from both resorbable and non-resorbable prosthetic parts, e.g. adjacent parts}
A61F 2002/30036	. . . . .	{differing in release or diffusion time}
A61F 2002/30037	. . . . .	{differing in coefficient of thermal expansion or dila(ta)tion}
A61F 2002/30039	. . . . .	{differing in shape-memory transition temperatures, e.g. in martensitic transition temperature or in austenitic transition temperature}
A61F 2002/30041	. . . . .	{differing in hardening time}
A61F 2002/30042	. . . . .	{made from both cured and uncured parts}
A61F 2002/30044	. . . . .	{differing in melting temperature}
A61F 2002/30046	. . . . .	{differing in thermal conductivity}
A61F 2002/30047	. . . . .	{differing in colour}
A61F 2002/30049	. . . . .	{differing in optical properties}
A61F 2002/30051	. . . . .	{differing in corrosion resistance}
A61F 2002/30052	. . . . .	{differing in electric properties}
A61F 2002/30054	. . . . .	{differing in electromagnetical properties}
A61F 2002/30056	. . . . .	{differing in radiographic density}
A61F 2002/30057	. . . . .	{made from both cortical and cancellous adjacent parts}
A61F 2002/30059	. . . . .	{differing in bone mineralization, e.g. made from both mineralized and demineralized adjacent parts}
A61F 2002/3006	. . . . .	{Properties of materials and coating materials}
A61F 2002/30062	. . . . .	{{(bio)absorbable, biodegradable, bioerodable, (bio)resorbable, resorptive}
A61F 2002/30064	. . . . .	{Coating or prosthesis-covering structure made of biodegradable material}
A61F 2002/30065	. . . . .	{thermoplastic, i.e. softening or fusing when heated, and hardening and becoming rigid again when cooled}
A61F 2002/30067	. . . . .	{Coating or prosthesis-covering structure made of thermoplastic material}
A61F 2002/30069	. . . . .	{elastomeric}
A61F 2002/3007	. . . . .	{Coating or prosthesis-covering structure made of elastic material, e.g. of elastomer}
A61F 2002/30072	. . . . .	{Coating made of plastically deformable or self-moulding material}
A61F 2002/30074	. . . . .	{stretchable}
A61F 2002/30075	. . . . .	{swellable, e.g. when wetted}
A61F 2002/30077	. . . . .	{shrinkable}
A61F 2002/30079	. . . . .	{magnetic}

A61F 2002/3008	. . . . .	{radio-opaque, e.g. radio-opaque markers}
A61F 2002/30082	. . . . .	{radioactive}
A61F 2002/30084	. . . . .	{Materials having a crystalline structure}
A61F 2002/30085	. . . . .	{anisotropic}
A61F 2002/30087	. . . . .	{piezoelectric}
A61F 2002/30088	. . . . .	{Phase change materials [PCM], e.g. for storing latent heat}
A61F 2002/3009	. . . . .	{Transparent or translucent}
A61F 2002/30092	. . . . .	{using shape memory or superelastic materials, e.g. nitinol}
A61F 2002/30093	. . . . .	{operated at only one temperature whilst inside or touching the human body, e.g. constrained in a non-operative shape during surgery, another temperature only occurring before the operation}
A61F 2002/30095	. . . . .	{operated at different temperatures whilst inside or touching the human body, heated or cooled by external energy source or cold supply}
A61F 2002/30097	. . . . .	{cooled}
A61F 2002/30098	. . . . .	{electrically, e.g. heated by resistor}
A61F 2002/301	. . . . .	{electromagnetically}
A61F 2002/30102	. . . . .	{using a fluid, e.g. circulating}
A61F 2002/30103	. . . . .	{heated by light}
A61F 2002/30105	. . . . .	{ultrasonically}
A61F 2002/30107	. . . . .	{using materials or accessories for preventing galvanic or electrolytic corrosion}
A61F 2002/30108	. . . . .	{Shapes}
A61F 2002/3011	. . . . .	{Cross-sections or two-dimensional shapes}
A61F 2002/30112	. . . . .	{Rounded shapes, e.g. with rounded corners}
A61F 2002/30113	. . . . .	{circular}
A61F 2002/30115	. . . . .	{circular-O-shaped}
A61F 2002/30116	. . . . .	{partial circles, i.e. circular segments}
A61F 2002/30118	. . . . .	{concentric circles}
A61F 2002/3012	. . . . .	{intersecting circles}
A61F 2002/30121	. . . . .	{with lobes}
A61F 2002/30123	. . . . .	{with two diametrically opposed lobes}
A61F 2002/30125	. . . . .	{elliptical or oval}
A61F 2002/30126	. . . . .	{oval-O-shaped}
A61F 2002/30128	. . . . .	{concentric ellipses}
A61F 2002/3013	. . . . .	{figure-"8"- or hourglass-shaped}
A61F 2002/30131	. . . . .	{horseshoe- or crescent- or C-shaped or U-shaped}
A61F 2002/30133	. . . . .	{kidney-shaped or bean-shaped}
A61F 2002/30135	. . . . .	{S-shaped or Z-shaped}
A61F 2002/30136	. . . . .	{undulated or wavy, e.g. serpentine-shaped or zigzag-shaped}

A61F 2002/30138	. . . . .	{Convex polygonal shapes}
A61F 2002/3014	. . . . .	{decagonal}
A61F 2002/30141	. . . . .	{dodecagonal}
A61F 2002/30143	. . . . .	{hexagonal}
A61F 2002/30144	. . . . .	{Honeycomb pattern}
A61F 2002/30146	. . . . .	{octagonal}
A61F 2002/30148	. . . . .	{lozenge- or diamond-shaped}
A61F 2002/30149	. . . . .	{pentagonal}
A61F 2002/30151	. . . . .	{rhomboidal or parallelogram-shaped}
A61F 2002/30153	. . . . .	{rectangular}
A61F 2002/30154	. . . . .	{square}
A61F 2002/30156	. . . . .	{triangular}
A61F 2002/30158	. . . . .	{trapezoidal}
A61F 2002/30159	. . . . .	{Concave polygonal shapes}
A61F 2002/30161	. . . . .	{arrow-shaped}
A61F 2002/30163	. . . . .	{cruciform, different from X-shaped}
A61F 2002/30164	. . . . .	{dovetail-shaped}
A61F 2002/30166	. . . . .	{H-shaped or I-shaped}
A61F 2002/30168	. . . . .	{L-shaped}
A61F 2002/30169	. . . . .	{Pi-shaped}
A61F 2002/30171	. . . . .	{rosette- or star-shaped}
A61F 2002/30172	. . . . .	{T-shaped}
A61F 2002/30174	. . . . .	{the upper branch of the T being inclined with respect to its main branch}
A61F 2002/30176	. . . . .	{V-shaped}
A61F 2002/30177	. . . . .	{W-shaped, M-shaped or sigma shaped}
A61F 2002/30179	. . . . .	{X-shaped}
A61F 2002/30181	. . . . .	{Y-shaped}
A61F 2002/30182	. . . . .	{Other shapes}
A61F 2002/30184	. . . . .	{Alpha-shaped}
A61F 2002/30186	. . . . .	{B-shaped}
A61F 2002/30187	. . . . .	{D-shaped or half-disc-shaped}
A61F 2002/30189	. . . . .	{E-shaped or epsilon-shaped}
A61F 2002/30191	. . . . .	{heart-shaped}
A61F 2002/30192	. . . . .	{J-shaped}
A61F 2002/30194	. . . . .	{quarter-disc-shaped}
A61F 2002/30196	. . . . .	{Psi-shaped or fork-shaped}
A61F 2002/30197	. . . . .	{Omega-shaped}
A61F 2002/30199	. . . . .	{Three-dimensional shapes}
A61F 2002/302	. . . . .	{toroidal, e.g. rings}

A61F 2002/30202	. . . . .	{half-tores}
A61F 2002/30204	. . . . .	{toric}
A61F 2002/30205	. . . . .	{conical}
A61F 2002/30207	. . . . .	{Double convex cones, i.e. element having two convex cones, one at each of its opposite ends}
A61F 2002/30209	. . . . .	{Cones of elliptical or oval basis}
A61F 2002/3021	. . . . .	{frustoconical}
A61F 2002/30212	. . . . .	{Half-cones}
A61F 2002/30214	. . . . .	{having tapered sections of different conicities}
A61F 2002/30215	. . . . .	{Stepped cones, i.e. having discrete diameter changes}
A61F 2002/30217	. . . . .	{hollow cones, e.g. tubular-like cones}
A61F 2002/30219	. . . . .	{the inner and outer surfaces having different conicities}
A61F 2002/3022	. . . . .	{Half tubular-like cones}
A61F 2002/30222	. . . . .	{concentric tubular-like cones}
A61F 2002/30224	. . . . .	{cylindrical}
A61F 2002/30225	. . . . .	{Flat cylinders, i.e. discs}
A61F 2002/30227	. . . . .	{arched, domed or vaulted}
A61F 2002/30228	. . . . .	{Cylinders of elliptical or oval basis}
A61F 2002/3023	. . . . .	{wedge-shaped cylinders}
A61F 2002/30232	. . . . .	{Half-cylinders}
A61F 2002/30233	. . . . .	{Stepped cylinders, i.e. having discrete diameter changes}
A61F 2002/30235	. . . . .	{tubular, e.g. sleeves}
A61F 2002/30237	. . . . .	{partial tubes}
A61F 2002/30238	. . . . .	{half tubes}
A61F 2002/3024	. . . . .	{concentric tubes}
A61F 2002/30242	. . . . .	{spherical}
A61F 2002/30243	. . . . .	{the overall spherical surface being composed of a plurality of adjacent circular or polygonal segments, e.g. football-like shaped}
A61F 2002/30245	. . . . .	{Partial spheres}
A61F 2002/30247	. . . . .	{Hemispheres or half-spheres}
A61F 2002/30248	. . . . .	{Quarter-spheres}
A61F 2002/3025	. . . . .	{hollow spheres}
A61F 2002/30252	. . . . .	{quadric-shaped}
A61F 2002/30253	. . . . .	{ellipsoidal or ovoid}
A61F 2002/30255	. . . . .	{hyperboloidal}
A61F 2002/30257	. . . . .	{paraboloidal}
A61F 2002/30258	. . . . .	{elliptic paraboloid}
A61F 2002/3026	. . . . .	{hyperbolic paraboloid}
A61F 2002/30261	. . . . .	{parallelepipedal}
A61F 2002/30263	. . . . .	{cubical}

A61F 2002/30265	. . . . .	{Flat parallelepipeds}
A61F 2002/30266	. . . . .	{wedge-shaped parallelepipeds}
A61F 2002/30268	. . . . .	{Partial parallelepipeds}
A61F 2002/3027	. . . . .	{Stepped parallelepipeds}
A61F 2002/30271	. . . . .	{hollow parallelepipeds}
A61F 2002/30273	. . . . .	{pyramidal}
A61F 2002/30275	. . . . .	{tetrahedral, i.e. having a triangular basis}
A61F 2002/30276	. . . . .	{frustopyramidal}
A61F 2002/30278	. . . . .	{hollow pyramids}
A61F 2002/3028	. . . . .	{polyhedral different from parallelepipedal and pyramidal}
A61F 2002/30281	. . . . .	{wedge-shaped}
A61F 2002/30283	. . . . .	{hollow}
A61F 2002/30285	. . . . .	{rugby-ball-shaped}
A61F 2002/30286	. . . . .	{barrel-shaped}
A61F 2002/30288	. . . . .	{bottle-shaped}
A61F 2002/30289	. . . . .	{helically-coiled}
A61F 2002/30291	. . . . .	{spirally-coiled, i.e. having a 2-D spiral cross-section}
A61F 2002/30293	. . . . .	{Cylindrical body made by spirally rolling up a sheet or a strip around itself}
A61F 2002/30294	. . . . .	{Conical or frustoconical body made by spirally rolling up a sheet or a strip around itself}
A61F 2002/30296	. . . . .	{logarithmic spiral}
A61F 2002/30298	. . . . .	{Parallelepipedal body made by spirally rolling up a sheet or a strip around itself}
A61F 2002/30299	. . . . .	{umbrella-shaped or mushroom-shaped}
A61F 2002/30301	. . . . .	{saddle-shaped}
A61F 2002/30303	. . . . .	{polypod-shaped}
A61F 2002/30304	. . . . .	{nose-shaped}
A61F 2002/30306	. . . . .	{harpoon-shaped}
A61F 2002/30308	. . . . .	{banana-shaped}
A61F 2002/30309	. . . . .	{hat-shaped}
A61F 2002/30311	. . . . .	{doughnut-shaped}
A61F 2002/30313	. . . . .	{pear-shaped}
A61F 2002/30314	. . . . .	{bell-shaped}
A61F 2002/30316	. . . . .	{The prosthesis having different structural features at different locations within the same prosthesis; Connections between prosthetic parts; Special structural features of bone or joint prostheses not otherwise provided for}
A61F 2002/30317	. . . . .	{The prosthesis having different structural features at different locations within the same prosthesis}
A61F 2002/30319	. . . . .	{differing in moment of inertia}
A61F 2002/30321	. . . . .	{differing in roughness}

A61F 2002/30322	. . . . .	{differing in surface structures}
A61F 2002/30324	. . . . .	{differing in thickness}
A61F 2002/30326	. . . . .	{differing in height or in length}
A61F 2002/30327	. . . . .	{differing in diameter}
A61F 2002/30329	. . . . .	{Connections or couplings between prosthetic parts, e.g. between modular parts; Connecting elements}
A61F 2002/30331	. . . . .	{made by longitudinally pushing a protrusion into a complementarily-shaped recess, e.g. held by friction fit}
A61F 2002/30332	. . . . .	{Conically- or frustoconically-shaped protrusion and recess}
A61F 2002/30334	. . . . .	{Cone of elliptical or oval basis}
A61F 2002/30336	. . . . .	{Stepped cones, i.e. having discrete diameter changes}
A61F 2002/30337	. . . . .	{Inverted concave conical connections, e.g. for opposing disconnection}
A61F 2002/30339	. . . . .	{Double cones, i.e. connecting element having two conical connections, one at each of its opposite ends}
A61F 2002/30341	. . . . .	{both cones being convex, i.e. male tapers}
A61F 2002/30342	. . . . .	{both cones being concave, i.e. female tapers}
A61F 2002/30344	. . . . .	{one cone being convex and the other being concave}
A61F 2002/30345	. . . . .	{Multiple conical connection, i.e. the protrusion and recess having several tapered sections of different complementary conicities}
A61F 2002/30347	. . . . .	{Protrusion and recess of complementarily-tapered undulated or serrated cross-section}
A61F 2002/30349	. . . . .	{the male and female complementary cones being of different conicities, i.e. for reducing the contact area}
A61F 2002/3035	. . . . .	{the male convex cone having an inner female concave taper}
A61F 2002/30352	. . . . .	{Protrusion and recess of D-shaped cross-section}
A61F 2002/30354	. . . . .	{Cylindrically-shaped protrusion and recess, e.g. cylinder of circular basis}
A61F 2002/30355	. . . . .	{Cylinder of elliptical or oval basis}
A61F 2002/30357	. . . . .	{Stepped cylinders, i.e. having discrete diameter changes}
A61F 2002/30359	. . . . .	{Pyramidally- or frustopyramidally-shaped protrusion and recess}
A61F 2002/3036	. . . . .	{Protrusion and recess of kidney-shaped cross-section}
A61F 2002/30362	. . . . .	{with possibility of relative movement between the protrusion and the recess}
A61F 2002/30364	. . . . .	{Rotation about the common longitudinal axis}
A61F 2002/30365	. . . . .	{with additional means for limiting said rotation}
A61F 2002/30367	. . . . .	{with additional means for preventing said rotation}
A61F 2002/30369	. . . . .	{Limited lateral translation of the protrusion within a larger recess}

A61F 2002/3037	. . . . .	{Translation along the common longitudinal axis, e.g. piston}
A61F 2002/30372	. . . . .	{with additional means for limiting said translation}
A61F 2002/30373	. . . . .	{with additional means for preventing said translation}
A61F 2002/30375	. . . . .	{with an intermediate bushing or sleeve between the moving parts}
A61F 2002/30377	. . . . .	{Protrusion and recess of constant polygonal, serrated or undulated cross-section}
A61F 2002/30378	. . . . .	{Spherically-shaped protrusion and recess}
A61F 2002/3038	. . . . .	{made by pushing a key or a peg into a mating slot or hole}
A61F 2002/30382	. . . . .	{made by pushing lateral pegs into mating lateral slots or bores}
A61F 2002/30383	. . . . .	{made by laterally inserting a protrusion, e.g. a rib into a complementarily-shaped groove}
A61F 2002/30385	. . . . .	{the rib and groove having non-parallel, e.g. conically-tapered, cooperating sides, e.g. having a trapezoidal front cross-section}
A61F 2002/30387	. . . . .	{Dovetail connection}
A61F 2002/30388	. . . . .	{Half-dovetail}
A61F 2002/3039	. . . . .	{with possibility of relative movement of the rib within the groove}
A61F 2002/30392	. . . . .	{Rotation}
A61F 2002/30393	. . . . .	{with additional means for limiting said rotation}
A61F 2002/30395	. . . . .	{with additional means for preventing or locking said rotation}
A61F 2002/30397	. . . . .	{Limited lateral translation of the rib within a larger groove}
A61F 2002/30398	. . . . .	{Sliding}
A61F 2002/304	. . . . .	{with additional means for limiting said sliding}
A61F 2002/30401	. . . . .	{with additional means for preventing or locking said sliding}
A61F 2002/30403	. . . . .	{Longitudinally-oriented cooperating ribs and grooves on mating lateral surfaces of a mainly longitudinal connection}
A61F 2002/30405	. . . . .	{made by screwing complementary threads machined on the parts themselves}
A61F 2002/30406	. . . . .	{Threads machined on spherical, e.g. hemispherical, surfaces}
A61F 2002/30408	. . . . .	{Conical threadings}
A61F 2002/3041	. . . . .	{having threaded portions of different pitches}
A61F 2002/30411	. . . . .	{having two threaded end parts connected by a threaded central part with opposite threads at its opposite ends, i.e. for adjusting the distance between both end parts by rotating the central part}
A61F 2002/30413	. . . . .	{having threads of increasing height or depth}

A61F 2002/30415	.	.	.	.	.	.	.	{with additional means for limiting the length of the movement of the male threads within the female threads}
A61F 2002/30416	.	.	.	.	.	.	.	{Microthreads}
A61F 2002/30418	.	.	.	.	.	.	.	{Double or multiple threadings}
A61F 2002/3042	.	.	.	.	.	.	.	{with a pin cooperating with a helical groove}
A61F 2002/30421	.	.	.	.	.	.	.	{Rounded threads}
A61F 2002/30423	.	.	.	.	.	.	.	{Stepped cylindrical threads, i.e. having discrete diameter changes}
A61F 2002/30425	.	.	.	.	.	.	.	{Square threads}
A61F 2002/30426	.	.	.	.	.	.	.	{Bayonet coupling}
A61F 2002/30428	.	.	.	.	.	.	.	{made by inserting a protrusion into a slot}
A61F 2002/30429	.	.	.	.	.	.	.	{made by inserting a hook into a cooperating slot}
A61F 2002/30431	.	.	.	.	.	.	.	{made by first pushing a necked button longitudinally and then sliding it laterally within a keyhole slot}
A61F 2002/30433	.	.	.	.	.	.	.	{using additional screws, bolts, dowels or rivets, e.g. connecting screws}
A61F 2002/30434	.	.	.	.	.	.	.	{using bolts}
A61F 2002/30436	.	.	.	.	.	.	.	{using dowels}
A61F 2002/30438	.	.	.	.	.	.	.	{using nuts}
A61F 2002/30439	.	.	.	.	.	.	.	{Screw head protectors}
A61F 2002/30441	.	.	.	.	.	.	.	{using rivets or directly riveted}
A61F 2002/30443	.	.	.	.	.	.	.	{using washers}
A61F 2002/30444	.	.	.	.	.	.	.	{Split washers}
A61F 2002/30446	.	.	.	.	.	.	.	{Spring washers, e.g. Belleville washers}
A61F 2002/30448	.	.	.	.	.	.	.	{using adhesives}
A61F 2002/30449	.	.	.	.	.	.	.	{the adhesive being cement}
A61F 2002/30451	.	.	.	.	.	.	.	{soldered or brazed or welded}
A61F 2002/30453	.	.	.	.	.	.	.	{brazed}
A61F 2002/30454	.	.	.	.	.	.	.	{by high energy welding, e.g. laser beam welding, electron beam welding, plasma welding}
A61F 2002/30456	.	.	.	.	.	.	.	{by spot welding}
A61F 2002/30457	.	.	.	.	.	.	.	{by ultrasonic or sonic welding}
A61F 2002/30459	.	.	.	.	.	.	.	{stapled}
A61F 2002/30461	.	.	.	.	.	.	.	{sutured, ligatured or stitched}
A61F 2002/30462	.	.	.	.	.	.	.	{retained or tied with a rope, string, thread, wire or cable}
A61F 2002/30464	.	.	.	.	.	.	.	{using bands, belts or straps}
A61F 2002/30466	.	.	.	.	.	.	.	{being elastic}
A61F 2002/30467	.	.	.	.	.	.	.	{using hook and loop-type fasteners}
A61F 2002/30469	.	.	.	.	.	.	.	{using band clamps}
A61F 2002/30471	.	.	.	.	.	.	.	{connected by a hinged linkage mechanism, e.g. of the single-bar or multi-bar linkage type}
A61F 2002/30472	.	.	.	.	.	.	.	{using connecting nails or pins}

A61F 2002/30474	.	.	.	.	.	.	{using an intermediate sleeve interposed between both prosthetic parts to be coupled}
A61F 2002/30476	.	.	.	.	.	.	{locked by an additional locking mechanism}
A61F 2002/30477	.	.	.	.	.	.	{using sharp protrusions, e.g. spikes, for anchoring into connecting prosthetic part}
A61F 2002/30479	.	.	.	.	.	.	{using a locking ball}
A61F 2002/30481	.	.	.	.	.	.	{using a locking clip}
A61F 2002/30482	.	.	.	.	.	.	{using a locking cam}
A61F 2002/30484	.	.	.	.	.	.	{Mechanically expandable devices located on the first prosthetic part for locking into or onto the second prosthetic part}
A61F 2002/30485	.	.	.	.	.	.	{plastically deformable}
A61F 2002/30487	.	.	.	.	.	.	{Circumferential cooperating grooves and beads on cooperating lateral surfaces of a mainly longitudinal connection}
A61F 2002/30489	.	.	.	.	.	.	{Circumferential cooperating serrations}
A61F 2002/3049	.	.	.	.	.	.	{using a slidable sleeve covering the connection}
A61F 2002/30492	.	.	.	.	.	.	{using a locking pin}
A61F 2002/30494	.	.	.	.	.	.	{Cooperating protrusions and recesses, e.g. radial serrations, located on abutting end surfaces of a longitudinal connection}
A61F 2002/30495	.	.	.	.	.	.	{using a locking ring}
A61F 2002/30497	.	.	.	.	.	.	{Split ring, e.g. circlip}
A61F 2002/30499	.	.	.	.	.	.	{Wire ring}
A61F 2002/305	.	.	.	.	.	.	{Snap connection}
A61F 2002/30502	.	.	.	.	.	.	{Press-buttons}
A61F 2002/30504	.	.	.	.	.	.	{made by laterally snapping a peg or a like protrusion into a mating detent, hole or slot}
A61F 2002/30505	.	.	.	.	.	.	{spring biased}
A61F 2002/30507	.	.	.	.	.	.	{using a threaded locking member, e.g. a locking screw or a set screw}
A61F 2002/30509	.	.	.	.	.	.	{using a traction locking screw}
A61F 2002/3051	.	.	.	.	.	.	{using a locking bolt or a set bolt}
A61F 2002/30512	.	.	.	.	.	.	{using a locking nut or a set nut}
A61F 2002/30514	.	.	.	.	.	.	{using a locking washer}
A61F 2002/30515	.	.	.	.	.	.	{using a locking wedge or block}
A61F 2002/30517	.	.	.	.	.	.	{using a locking plate}
A61F 2002/30518	.	.	.	.	.	.	{with possibility of relative movement between the prosthetic parts}
A61F 2002/3052	.	.	.	.	.	.	{unrestrained in only one direction, e.g. moving unidirectionally}
A61F 2002/30522	.	.	.	.	.	.	{releasable, e.g. using a releasable ratchet}
A61F 2002/30523	.	.	.	.	.	.	{by means of meshing gear teeth}

A61F 2002/30525	. . . . .	{Worm gears}
A61F 2002/30527	. . . . .	{using a gear box}
A61F 2002/30528	. . . . .	{Means for limiting said movement}
A61F 2002/3053	. . . . .	{having additional means for preventing unwanted connections}
A61F 2002/30532	. . . . .	{for preventing connection between parts of wrong sizes or orientations}
A61F 2002/30533	. . . . .	{for preventing permanent connection between prosthetic parts and trial parts}
A61F 2002/30535	. . . . .	{Special structural features of bone or joint prostheses not otherwise provided for}
A61F 2002/30537	. . . . .	{adjustable}
A61F 2002/30538	. . . . .	{for adjusting angular orientation}
A61F 2002/3054	. . . . .	{about a connection axis or implantation axis for selecting any one of a plurality of radial orientations between two modular parts, e.g. at discrete positions}
A61F 2002/30542	. . . . .	{at continuous positions}
A61F 2002/30543	. . . . .	{at only two discrete angular positions, e.g. located at 180 degrees intervals}
A61F 2002/30545	. . . . .	{for adjusting a diameter}
A61F 2002/30546	. . . . .	{for adjusting elasticity, flexibility, spring rate or mechanical tension}
A61F 2002/30548	. . . . .	{for adjusting fluid pressure}
A61F 2002/3055	. . . . .	{for adjusting length}
A61F 2002/30551	. . . . .	{at different discrete positions, e.g. at equidistant intervals}
A61F 2002/30553	. . . . .	{for adjusting a position by translation along an axis}
A61F 2002/30555	. . . . .	{along two perpendicular axes}
A61F 2002/30556	. . . . .	{for adjusting thickness}
A61F 2002/30558	. . . . .	{Force-limiting means}
A61F 2002/3056	. . . . .	{Torque-limiting means}
A61F 2002/30561	. . . . .	{breakable or frangible}
A61F 2002/30563	. . . . .	{having elastic means or damping means, different from springs, e.g. including an elastomeric core or shock absorbers}
A61F 2002/30565	. . . . .	{having spring elements}
A61F 2002/30566	. . . . .	{Helical springs}
A61F 2002/30568	. . . . .	{Multiple spring systems including two or more helical springs}
A61F 2002/3057	. . . . .	{Concentric outer and inner helical springs}
A61F 2002/30571	. . . . .	{Leaf springs}
A61F 2002/30573	. . . . .	{2-D spiral springs}
A61F 2002/30574	. . . . .	{with an integral complete or partial collar or flange}
A61F 2002/30576	. . . . .	{with extending fixation tabs}
A61F 2002/30578	. . . . .	{having apertures, e.g. for receiving fixation screws}

A61F 2002/30579	. . . . .	{with mechanically expandable devices, e.g. fixation devices}
A61F 2002/30581	. . . . .	{having a pocket filled with fluid, e.g. liquid}
A61F 2002/30583	. . . . .	{filled with hardenable fluid, e.g. curable in-situ}
A61F 2002/30584	. . . . .	{filled with gas}
A61F 2002/30586	. . . . .	{having two or more inflatable pockets or chambers}
A61F 2002/30588	. . . . .	{filled with solid particles}
A61F 2002/30589	. . . . .	{Sealing means}
A61F 2002/30591	. . . . .	{O-rings}
A61F 2002/30593	. . . . .	{hollow}
A61F 2002/30594	. . . . .	{slotted}
A61F 2002/30596	. . . . .	{slots ending in apertures, e.g. for avoiding stress concentration at the ends of the slots}
A61F 2002/30598	. . . . .	{Plurality of slots}
A61F 2002/30599	. . . . .	{stackable}
A61F 2002/30601	. . . . .	{telescopic}
A61F 2002/30602	. . . . .	{Shaft made of a bundle of anchoring rods or bristles, e.g. fasciculate shaft}
A61F 2002/30604	. . . . .	{modular}
A61F 2002/30606	. . . . .	{Sets comprising both cemented and non-cemented endoprostheses}
A61F 2002/30607	. . . . .	{Kits of prosthetic parts to be assembled in various combinations for forming different prostheses}
A61F 2002/30609	. . . . .	{Sets comprising both coated and non-coated endoprostheses}
A61F 2002/30611	. . . . .	{Nested prosthetic parts}
A61F 2002/30612	. . . . .	{Pre-assembled implant modules}
A61F 2002/30614	. . . . .	{Sets comprising both primary and revision endoprostheses}
A61F 2002/30616	. . . . .	{Sets comprising a plurality of prosthetic parts of different sizes or orientations}
A61F 2002/30617	. . . . .	{Visible markings for adjusting, locating or measuring}
A61F 2002/30619	. . . . .	{Wire rings}
A61F 2002/30621	. . . . .	{Features concerning the anatomical functioning or articulation of the prosthetic joint}
A61F 2002/30622	. . . . .	{Implant for fusing a joint or bone material}
A61F 2002/30624	. . . . .	{Hinged joint, e.g. with transverse axle restricting the movement}
A61F 2002/30626	. . . . .	{allowing only for single rotation}
A61F 2002/30627	. . . . .	{by means of cooperating stepped cylindrical surfaces}
A61F 2002/30629	. . . . .	{of the pin-guiding groove linkage type}
A61F 2002/3063	. . . . .	{having bearing bushes between the rotating parts}
A61F 2002/30632	. . . . .	{with rotation-limiting stops, e.g. projections or recesses}
A61F 2002/30634	. . . . .	{biaxial}
A61F 2002/30635	. . . . .	{Cardan or gimbal joints}

A61F 2002/30637	. . . . .	{Dual arrangement of two adjacent hinged joints}
A61F 2002/30639	. . . . .	{having rolling elements between both articulating surfaces}
A61F 2002/3064	. . . . .	{Ball bearings}
A61F 2002/30642	. . . . .	{having a single rolling (or sliding) ball articulating between two cups}
A61F 2002/30644	. . . . .	{Roller bearings}
A61F 2002/30645	. . . . .	{Needle bearings}
A61F 2002/30647	. . . . .	{Joints made of two toroidal rings engaged together}
A61F 2002/30649	. . . . .	{Ball-and-socket joints}
A61F 2002/3065	. . . . .	{Details of the ball-shaped head}
A61F 2002/30652	. . . . .	{Special cut-outs, e.g. flat or grooved cut-outs}
A61F 2002/30654	. . . . .	{Details of the concave socket}
A61F 2002/30655	. . . . .	{Non-spherical concave inner surface}
A61F 2002/30657	. . . . .	{made of different partially-spherical concave portions}
A61F 2002/30658	. . . . .	{having a central conforming area surrounded by a peripheral annular non-conforming area}
A61F 2002/3066	. . . . .	{having a central non-conforming area surrounded by a peripheral annular conforming area}
A61F 2002/30662	. . . . .	{with rotation-limiting means}
A61F 2002/30663	. . . . .	{multiaxial, e.g. biaxial; multipolar, e.g. bipolar or having an intermediate shell articulating between the ball and the socket}
A61F 2002/30665	. . . . .	{Dual arrangement of two adjacent ball-and-socket joints}
A61F 2002/30667	. . . . .	{Features concerning an interaction with the environment or a particular use of the prosthesis}
A61F 2002/30668	. . . . .	{Means for transferring electromagnetic energy to implants}
A61F 2002/3067	. . . . .	{for data transfer}
A61F 2002/30672	. . . . .	{temporary}
A61F 2002/30673	. . . . .	{Lubricating means, e.g. synovial pocket}
A61F 2002/30675	. . . . .	{Means for regulating synovial fluid pressure}
A61F 2002/30677	. . . . .	{Means for introducing or releasing pharmaceutical products, e.g. antibiotics, into the body}
A61F 2002/30678	. . . . .	{Gene therapy}
A61F 2002/3068	. . . . .	{the pharmaceutical product being in a reservoir}
A61F 2002/30682	. . . . .	{Means for preventing migration of particles released by the joint, e.g. wear debris or cement particles}
A61F 2002/30683	. . . . .	{Means for collecting wear particles in a hollow cavity inside the prosthesis}
A61F 2002/30685	. . . . .	{Means for reducing or preventing the generation of wear particulates}
A61F 2002/30686	. . . . .	{Devices for removing particulate debris from prosthetic joints}
A61F 2002/30688	. . . . .	{Means for allowing passage or sliding of tendons or ligaments}
A61F 2002/3069	. . . . .	{Revision endoprotheses}

A61F 2002/30691	. . . . .	{Drainage means, e.g. for evacuating blood or other fluids}
A61F 2002/30693	. . . . .	{Air venting means}
A61F 2002/30695	. . . . .	{Sound-damping or noise-reducing means}
A61F 2002/30696	. . . . .	{Means for preventing the accidental forgetting of prosthetic parts inside the body during operation}
A61F 2002/30698	. . . . .	{Alarm means}
A61F 2002/307	. . . . .	{Prostheses for animals}
A61F 2002/30701	. . . . .	{for cats}
A61F 2002/30703	. . . . .	{for dogs}
A61F 2002/30705	. . . . .	{for horses}
A61F 2002/30706	. . . . .	{specially designed for children, e.g. having means for adjusting to their growth}
A61F 2002/30708	. . . . .	{Means for distinguishing between left-sided and right-sided devices, Sets comprising both left-sided and right-sided prosthetic parts}
A61F 2002/3071	. . . . .	{Identification means; Administration of patients}
A61F 2002/30711	. . . . .	{with bar code}
A61F 2002/30713	. . . . .	{colour-coded}
A61F 2002/30714	. . . . .	{coded with symbols, e.g. dots, numbers, letters, words}
A61F 2002/30716	. . . . .	{for single use, e.g. having means for preventing re-use}
A61F 2002/30718	. . . . .	{Means for protecting prosthetic parts, e.g. during operation}
A61F 2002/30719	. . . . .	{Means for cleaning prostheses}
A61F 2/30721	. . . .	{Accessories}
A61F 2/30723	. . . .	{Plugs or restrictors for sealing a cement-receiving space (tools for inserting plugs A61F 2/4614 ; sealing collars for use during cementing A61B 17/8808)}
A61F 2/30724	. . . .	{Spacers for centering an implant in a bone cavity, e.g. in a cement-receiving cavity}
A61F 2002/30726	. . . . .	{Centering or guiding rods, e.g. for insertion of femoral shafts}
A61F 2/30728	. . . .	{Collars; Bone edge protectors (A61F 2/30734 takes precedence; sealing collars for use during cementing A61B 17/8808)}
A61F 2002/30729	. . . . .	{Separate collars}
A61F 2002/30731	. . . . .	{Bone edge protectors}
A61F 2002/30733	. . . . .	{Inserts placed into an endoprosthetic cavity, e.g. for modifying a material property}
A61F 2/30734	. . . .	{Modular inserts, sleeves or augments, e.g. placed on proximal part of stem for fixation purposes or wedges for bridging a bone defect}
A61F 2002/30736	. . . . .	{Augments or augmentation pieces, e.g. wedges or blocks for bridging a bone defect}
A61F 2002/30738	. . . . .	{Sleeves}
A61F 2/30739	. . . .	{Devices connected to the proximal part of an endoprosthetic femoral shaft for reinforcing or replacing the trochanters, e.g. the greater trochanter (proximal parts of endoprosthetic femoral shafts A61F 2/367 ; non-prosthetic trochanteric devices A61B 17/74)}

A61F 2002/30741	. . . . .	{for the lesser trochanter}
A61F 2/30742	. . . . .	{Bellows or hose-like seals; Sealing membranes (A61B 17/8808 takes precedence; sealing membranes for retaining bone substitute A61F 2/2846)}
A61F 2/30744	. . . . .	{End caps, e.g. for closing an endoprosthetic cavity}
A61F 2002/30746	. . . . .	{closable by a rotation different from screwing or bayonet coupling, e.g. about the cap central longitudinal axis}
A61F 2002/30747	. . . . .	{closable by translation}
A61F 2/30749	. . . . .	{Fixation appliances for connecting prostheses to the body}
A61F 2002/30751	. . . . .	{for attaching cartilage scaffolds to underlying bone}
A61F 2002/30752	. . . . .	{by means of a bed of granular material}
A61F 2002/30754	. . . . .	{Implants for interposition between two natural articular surfaces}
A61F 2/30756	. . . . .	{Cartilage endoprostheses (A61F 2/3603 takes precedence)}
A61F 2002/30757	. . . . .	{made of a sheet covering the natural articular surface, e.g. cap}
A61F 2002/30759	. . . . .	{Mosaicplasty, i.e. using a plurality of individual cartilage plugs for filling a substantial cartilage defect}
A61F 2002/30761	. . . . .	{Support means for artificial cartilage, e.g. cartilage defect covering membranes}
A61F 2002/30762	. . . . .	{Means for culturing cartilage}
A61F 2002/30764	. . . . .	{Cartilage harvest sites}
A61F 2002/30766	. . . . .	{Scaffolds for cartilage ingrowth and regeneration}
A61F 2/30767	. . . . .	{Special external and/or bone-contacting surfaces, e.g. coating for improving bone ingrowth (materials for coating prostheses A61L 27/28)}
A61F 2002/30769	. . . . .	{madreporic}
A61F 2/30771	. . . . .	{applied in original prostheses, e.g. holes, grooves (etching the surface A61F 2/30767)}
A61F 2002/30772	. . . . .	{Apertures or holes, e.g. of circular cross section}
A61F 2002/30774	. . . . .	{internally-threaded}
A61F 2002/30775	. . . . .	{with two portions of opposite threads, i.e. a right-hand thread and a left-hand thread}
A61F 2002/30777	. . . . .	{Oblong apertures}
A61F 2002/30779	. . . . .	{arcuate}
A61F 2002/3078	. . . . .	{having an undulated contour, e.g. made of intercommunicating circular holes}
A61F 2002/30782	. . . . .	{inclined obliquely}
A61F 2002/30784	. . . . .	{Plurality of holes}
A61F 2002/30785	. . . . .	{parallel}
A61F 2002/30787	. . . . .	{inclined obliquely w.r.t. each other}
A61F 2002/30789	. . . . .	{perpendicular w.r.t. each other}
A61F 2002/3079	. . . . .	{Stepped or enlarged apertures, e.g. having discrete diameter changes}
A61F 2002/30792	. . . . .	{Dual tapered apertures}

A61F 2002/30794	. . . . .	{the enlarged portion being used for receiving and hiding a screw head, a nut or a closing cap}
A61F 2002/30795	. . . . .	{Blind bores, e.g. of circular cross-section}
A61F 2002/30797	. . . . .	{internally-threaded}
A61F 2002/30799	. . . . .	{with two portions of opposite threads, i.e. a right-hand thread and a left-hand thread}
A61F 2002/308	. . . . .	{oblong}
A61F 2002/30802	. . . . .	{arcuate}
A61F 2002/30803	. . . . .	{inclined obliquely}
A61F 2002/30805	. . . . .	{Recesses of comparatively large area w.r.t. their low depth}
A61F 2002/30807	. . . . .	{Plurality of blind bores}
A61F 2002/30808	. . . . .	{parallel}
A61F 2002/3081	. . . . .	{inclined obliquely w.r.t. each other}
A61F 2002/30812	. . . . .	{perpendicular w.r.t. each other}
A61F 2002/30813	. . . . .	{Stepped or enlarged blind bores, e.g. having discrete diameter changes}
A61F 2002/30815	. . . . .	{the enlarged portion being used for receiving and hiding a screw head, a nut or a closing cap}
A61F 2002/30817	. . . . .	{Intersecting or overlapping blind bores}
A61F 2002/30818	. . . . .	{castellated or crenellated}
A61F 2002/3082	. . . . .	{Grooves}
A61F 2002/30822	. . . . .	{Circumferential grooves}
A61F 2002/30823	. . . . .	{having the shape of a reverse dovetail}
A61F 2002/30825	. . . . .	{arcuate}
A61F 2002/30827	. . . . .	{Plurality of grooves}
A61F 2002/30828	. . . . .	{parallel}
A61F 2002/3083	. . . . .	{inclined obliquely with respect to each other}
A61F 2002/30831	. . . . .	{perpendicular with respect to each other}
A61F 2002/30833	. . . . .	{with enlarged portion}
A61F 2002/30835	. . . . .	{for receiving and hiding a screw head or a nut}
A61F 2002/30836	. . . . .	{knurled}
A61F 2002/30838	. . . . .	{Microstructures}
A61F 2002/3084	. . . . .	{Nanostructures}
A61F 2002/30841	. . . . .	{Sharp anchoring protrusions for impaction into the bone, e.g. sharp pins, spikes}
A61F 2002/30843	. . . . .	{Pyramidally-shaped}
A61F 2002/30845	. . . . .	{with cutting edges}
A61F 2002/30846	. . . . .	{circular}
A61F 2002/30848	. . . . .	{straight}
A61F 2002/3085	. . . . .	{with a threaded, e.g. self-tapping, bone-engaging surface, e.g. external surface}
A61F 2002/30851	. . . . .	{Multiple threadings}

A61F 2002/30853	. . . . .	{Double threadings}
A61F 2002/30855	. . . . .	{Quadruple or higher rank multiple threadings}
A61F 2002/30856	. . . . .	{Triple threadings}
A61F 2002/30858	. . . . .	{Threads interrupted by grooves or sidewalls, e.g. flat sidewalls}
A61F 2002/30859	. . . . .	{having threaded portions of different pitches}
A61F 2002/30861	. . . . .	{having threads of increasing or decreasing height}
A61F 2002/30863	. . . . .	{the entry end surface having flutes, relief grooves, starter notches or beveled indentations}
A61F 2002/30864	. . . . .	{Microthreads}
A61F 2002/30866	. . . . .	{Rounded threads}
A61F 2002/30868	. . . . .	{Square, rectangular or rhomboidal threads}
A61F 2002/30869	. . . . .	{Dovetail-shaped}
A61F 2002/30871	. . . . .	{Trapezoidal threads}
A61F 2002/30873	. . . . .	{Threadings machined on non-cylindrical external surfaces}
A61F 2002/30874	. . . . .	{on conical, e.g. frustoconical, surfaces}
A61F 2002/30876	. . . . .	{on spherical, e.g. hemispherical, surfaces}
A61F 2002/30878	. . . . .	{with non-sharp protrusions, for instance contacting the bone for anchoring, e.g. keels, pegs, pins, posts, shanks, stems, struts}
A61F 2002/30879	. . . . .	{Ribs}
A61F 2002/30881	. . . . .	{Circumferential ribs}
A61F 2002/30883	. . . . .	{dovetail-shaped}
A61F 2002/30884	. . . . .	{Fins or wings, e.g. longitudinal wings for preventing rotation within the bone cavity}
A61F 2002/30886	. . . . .	{externally-threaded}
A61F 2002/30887	. . . . .	{with two portions of opposite threads, i.e. a right-hand thread and a left-hand thread}
A61F 2002/30889	. . . . .	{Arcuate pegs}
A61F 2002/30891	. . . . .	{Plurality of protrusions}
A61F 2002/30892	. . . . .	{parallel}
A61F 2002/30894	. . . . .	{inclined obliquely w.r.t. each other}
A61F 2002/30896	. . . . .	{perpendicular w.r.t. each other}
A61F 2002/30897	. . . . .	{Stepped protrusions, i.e. having discrete diameter changes}
A61F 2002/30899	. . . . .	{Protrusions pierced with apertures}
A61F 2002/30901	. . . . .	{longitudinally}
A61F 2002/30902	. . . . .	{laterally or radially}
A61F 2002/30904	. . . . .	{serrated profile, i.e. saw-toothed}
A61F 2002/30906	. . . . .	{shot- sand- or grit-blasted}
A61F 2/30907	. . . . .	{Nets or sleeves applied to surface of prostheses or in cement}
A61F 2002/30909	. . . . .	{Nets}
A61F 2002/30911	. . . . .	{having a honeycomb structure}

A61F 2002/30912	. . . . .	{made of expanded metal, e.g. diamond mesh or metal nets having lozenge-shaped apertures}
A61F 2002/30914	. . . . .	{Details of the mesh structure, e.g. disposition of the woven warp and weft wires}
A61F 2002/30915	. . . . .	{made of a stack of bonded perforated sheets, grids or wire meshes}
A61F 2002/30917	. . . . .	{for avoiding direct contact between bone and implant, e.g. extensible membrane for preventing contamination or for easy removal}
A61F 2002/30919	. . . . .	{Sleeves}
A61F 2002/3092	. . . . .	{having an open-celled or open-pored structure}
A61F 2002/30922	. . . . .	{Hardened surfaces}
A61F 2002/30924	. . . . .	{by shot peening}
A61F 2002/30925	. . . . .	{etched}
A61F 2002/30927	. . . . .	{Electrolytic etching}
A61F 2002/30929	. . . . .	{having at least two superposed coatings}
A61F 2002/3093	. . . . .	{for promoting ingrowth of bone tissue}
A61F 2002/30932	. . . . .	{for retarding or preventing ingrowth of bone tissue}
A61F 2002/30934	. . . . .	{Special articulating surfaces}
A61F 2002/30935	. . . . .	{Concave articulating surface composed of a central conforming area surrounded by a peripheral annular non-conforming area}
A61F 2002/30937	. . . . .	{with cut-outs}
A61F 2002/30939	. . . . .	{Means for modifying the geometry of articulating surfaces, e.g. for compensating excessive clearance caused by wear}
A61F 2/3094	. . . . .	{Designing or manufacturing processes (not used, see subgroups)}
A61F 2/30942	. . . . .	{for designing or making customized prostheses, e.g. using templates, CT or NMR scans, finite-element analysis or CAD-CAM techniques (computer-assisted sizing or machining of dental prostheses A61C 13/0004 ; CAD-CAM techniques per se G05B 19/4202)}
A61F 2002/30943	. . . . .	{using mathematical models}
A61F 2002/30945	. . . . .	{using geometrical models}
A61F 2002/30947	. . . . .	{Fractal geometry}
A61F 2002/30948	. . . . .	{using computerized tomography, i.e. CT scans}
A61F 2002/3095	. . . . .	{using computerized axial tomography, i.e. CAT scans}
A61F 2002/30952	. . . . .	{using CAD-CAM techniques or NC-techniques}
A61F 2002/30953	. . . . .	{using a remote computer network, e.g. Internet}
A61F 2002/30955	. . . . .	{using finite-element analysis}
A61F 2002/30957	. . . . .	{using a positive or a negative model, e.g. moulds}
A61F 2002/30958	. . . . .	{using lost patterns, e.g. lost wax}
A61F 2002/3096	. . . . .	{trimmed or cut to a customised size}
A61F 2002/30962	. . . . .	{using stereolithography}
A61F 2002/30963	. . . . .	{using templates, e.g. grid charts}

A61F 2/30965	. . . .	{Reinforcing the prosthesis by embedding particles or fibres during moulding or dipping}
A61F 2002/30967	. . . .	{Diffusion bonding}
A61F 2002/30968	. . . .	{Sintering}
A61F 2002/3097	. . . .	{using laser}
A61F 2002/30971	. . . .	{Laminates, i.e. layered products}
A61F 2002/30973	. . . .	. {Two joined adjacent layers having complementary interlocking protrusions and recesses}
A61F 2002/30975	. . . .	{made of two halves}
A61F 2002/30976	. . . .	{using hydrojet}
A61F 2002/30978	. . . .	{using electrical discharge machining [EDM]}
A61F 2002/3098	. . . .	{using physical vapour deposition [PVD]}
A61F 2002/30981	. . . .	{using chemical vapour deposition [CVD]}
A61F 2002/30983	. . . .	{using electrostatic spray deposition [ESD]}
A61F 2002/30985	. . . .	{using three dimensional printing [3DP]}
A61F 2002/30986	. . . .	{using hot isostatic pressing [HIP]}
A61F 2/30988	. . .	{Other joints not covered by any of the groups A61F 2/32 to A61F 2/4425 }
A61F 2/3099	. . . .	{for temporo-mandibular [TM, TMJ] joints (endoprotheses for mandibular reconstruction A61F 2/2803)}
A61F 2002/30991	. . . .	. {Mandibular components}
A61F 2002/30993	. . . .	. {Temporal components}
A61F 2002/30995	. . . .	{for sacro-iliac joints}
A61F 2002/30996	. . . .	{for sterno-clavicular joints}
A61F 2002/30998	. . . .	{for acromio-clavicular joints}
A61F 2/32	. . .	for the hip

NOTE

Documents, which are of interest for more than one of the following subgroups, are classified in the hierarchically higher group only

A61F 2002/3208	. . . .	{Bipolar or multipolar joints, e.g. having a femoral head articulating within an intermediate acetabular shell whilst said shell articulates within the natural acetabular socket or within an artificial outer shell}
A61F 2002/3216	. . . .	. {tripolar}
A61F 2002/3225	. . . .	{the diameter of the inner concave femoral head-receiving cavity of the inner acetabular shell being essentially greater than the diameter of the convex femoral head}
A61F 2002/3233	. . . .	{having anti-luxation means for preventing complete dislocation of the femoral head from the acetabular cup}
A61F 2002/3241	. . . .	{having a ring, e.g. for locking the femoral head into the acetabular cup}
A61F 2002/325	. . . .	. {Split ring}
A61F 2002/3258	. . . .	. {Elastic or split ring, slidable from a first insertion position to a second locked position}

A61F 2002/3266	. . . . .	{Wire ring}
A61F 2002/3275	. . . . .	{Partial ring, i.e. not extending along the entire equatorial circumference}
A61F 2002/3283	. . . . .	{having two rings}
A61F 2002/3291	. . . . .	{for locking two concentric acetabular shells}
A61F 2/34	. . . . .	Acetabular cups
A61F 2002/3401	. . . . .	{with radial apertures, e.g. radial bores for receiving fixation screws}
A61F 2002/3403	. . . . .	{Polar aperture}
A61F 2002/3404	. . . . .	{internally-threaded}
A61F 2002/3406	. . . . .	{Oblong apertures}
A61F 2002/3408	. . . . .	{Shells having at least two sets of different apertures, e.g. one set located in the equatorial zone and another set located in the polar zone}
A61F 2002/3409	. . . . .	{having a bayonet coupling between an outer shell and a bearing insert}
A61F 2002/3411	. . . . .	{having a snap connection between two concentric shells}
A61F 2002/3412	. . . . .	{with pins or protrusions, e.g. non-sharp pins or protrusions projecting from a shell surface}
A61F 2002/3414	. . . . .	{Polar protrusion, e.g. for centering two concentric shells}
A61F 2002/3416	. . . . .	{externally-threaded}
A61F 2002/3417	. . . . .	{the outer shell having protrusions on meridian lines, e.g. equidistant fins or wings around the equatorial zone}
A61F 2002/3419	. . . . .	{Meridian ribs}
A61F 2002/342	. . . . .	{the outer shell having circumferential protrusions parallel to the equatorial plane, e.g. circumferential fins or wings}
A61F 2002/3422	. . . . .	{Circumferential ribs}
A61F 2002/3424	. . . . .	{arranged in rows, the circumferential ribs covering only partially the outer shell surface, e.g. located in the equatorial zone}
A61F 2002/3425	. . . . .	{the outer shell having non-meridian protrusions, e.g. fins or wings, located in planes inclined or perpendicular w.r.t. the equatorial plane}
A61F 2002/3427	. . . . .	{Non-meridian ribs, e.g. parallel ribs, inclined or perpendicular w.r.t. the equatorial plane}
A61F 2002/3429	. . . . .	{with an integral peripheral collar or flange, e.g. oriented away from the shell centre line}
A61F 2002/343	. . . . .	{partial, i.e. not extending along the entire equatorial circumference}
A61F 2002/3432	. . . . .	{having apertures for receiving fixation screws}
A61F 2002/3433	. . . . .	{with cut-outs, e.g. for allowing escape of excess bone cement}
A61F 2002/3435	. . . . .	{peripheral lip, e.g. elastic lip}
A61F 2002/3437	. . . . .	{oriented inwardly towards the shell centre line}
A61F 2002/3438	. . . . .	{hollow, e.g. clearance between inner and outer shells}

A61F 2002/344	. . . . .	{the inner shell having an inner hip femoral head-receiving cavity offset from its centre line}
A61F 2002/3441	. . . . .	{the outer shell having an outer surface and an inner insert receiving cavity being angularly inclined w.r.t. the longitudinal axis of the outer surface}
A61F 2002/3443	. . . . .	{with an anti-luxation elevated rim portion, e.g. on the inner shell}
A61F 2002/3445	. . . . .	{having a number of shells different from two}
A61F 2002/3446	. . . . .	. {Single cups}
A61F 2002/3448	. . . . .	. {Multiple cups made of three or more concentric shells fitted or nested into one another}
A61F 2002/345	. . . . .	{the inner and outer (hemi)spherical surfaces of a shell, e.g. an intermediate shell, having distinct centres of rotation, both located on the centre line of the shell}
A61F 2002/3451	. . . . .	{with angular positioning means for selecting any one of a plurality of radial orientations between two concentric shells, e.g. at discrete positions}
A61F 2002/3453	. . . . .	{having a non-hemispherical convex outer surface, e.g. quadric-shaped}
A61F 2002/3454	. . . . .	. {having an oblong, oval or elliptical cross-section in the equatorial plane}
A61F 2002/3456	. . . . .	. {ellipsoidal or having a flattened polar region}
A61F 2002/3458	. . . . .	. . {having a flattened polar plane}
A61F 2002/3459	. . . . .	. {made of different partially-spherical portions}
A61F 2002/3461	. . . . .	. . {having a lower equatorial peripheral spherical portion and an upper polar spherical portion, e.g. of differing radii or centres of rotation}
A61F 2002/3462	. . . . .	. {having a frustoconical external shape, e.g. entirely frustoconical}
A61F 2002/3464	. . . . .	. . {partially frustoconical}
A61F 2002/3466	. . . . .	. {having a cylindrical external shape, e.g. entirely cylindrical}
A61F 2002/3467	. . . . .	. . {partially cylindrical}
A61F 2002/3469	. . . . .	{with non-radial inner bores or canals}
A61F 2002/347	. . . . .	{with a slotted shell, e.g. outer shell having radial or meridian slots}
A61F 2002/3472	. . . . .	. {with one radial or meridian slot ending in a polar aperture}
A61F 2002/3474	. . . . .	. {slots ending in non-polar apertures}
A61F 2002/3475	. . . . .	. {horizontal slots, i.e. parallel to the equatorial plane}
A61F 2002/3477	. . . . .	. {arcuate slots}
A61F 2002/3479	. . . . .	{Cage-like shells, e.g. hemispherical outer shells made of meridian strips or wires connected to an equatorial strip, rim or wire}
A61F 2002/348	. . . . .	{Additional features}
A61F 2002/3482	. . . . .	. {Two hemispherical halves having completely different structures}
A61F 2002/3483	. . . . .	. {having a convex shape, e.g. hemispherical heads}
A61F 2002/3485	. . . . .	. {Shells made of block segments linked by thin connecting strips}

A61F 2002/3487	. . . . .	{Partial acetabular cups, e.g. strips replacing only partially the natural acetabular cartilage}
A61F 2002/3488	. . . . .	{for allowing sliding or for preventing hurting of the psoas muscle}
A61F 2002/349	. . . . .	{Shell having a wavy or undulated peripheral rim}
A61F 2002/3491	. . . . .	{partial, i.e. not extending along the entire equatorial circumference}
A61F 2002/3493	. . . . .	{Spherical shell significantly greater than a hemisphere, e.g. extending over more than 200 degrees}
A61F 2002/3495	. . . . .	{Spherical shell significantly smaller than a hemisphere, e.g. extending over less than 160 degrees}
A61F 2002/3496	. . . . .	{having a non-spherical concave inner surface}
A61F 2002/3498	. . . . .	{made of different partially-spherical concave portions}
A61F 2/36	. . . . .	Femoral heads; {Femoral endoprotheses}
A61F 2/3601	. . . . .	{for replacing only the epiphyseal or metaphyseal parts of the femur, e.g. endoprothetic femoral heads or necks directly fixed to the natural femur by internal fixation devices (non-prosthetic internal fixation devices for the femoral head or neck A61B 17/74)}
A61F 2/3603	. . . . .	{implanted without ablation of the whole natural femoral head (endoprothetic cartilage A61F 2/30756)}
A61F 2002/3605	. . . . .	{made of two or more concentric caps fitted onto one another}
A61F 2/3607	. . . . .	{including proximal or total replacement of the femur}
A61F 2/3609	. . . . .	{Femoral heads or necks; Connections of endoprothetic heads or necks to endoprothetic femoral shafts (A61F 2/3601 takes precedence)}
A61F 2002/3611	. . . . .	{Heads or epiphyseal parts of femur}
A61F 2002/3613	. . . . .	{with lateral or oblique apertures, holes or openings}
A61F 2002/3615	. . . . .	{having a concave shape, e.g. hemispherical cups}
A61F 2002/3617	. . . . .	{with special cut-outs, e.g. flat cut-outs for inserting the head into a cooperating shell, in a given insertion position}
A61F 2002/3619	. . . . .	{hollow}
A61F 2002/3621	. . . . .	{pierced with a longitudinal bore}
A61F 2002/3623	. . . . .	{Non-spherical heads}
A61F 2002/3625	. . . . .	{Necks}
A61F 2002/3627	. . . . .	{with lateral apertures, holes or openings}
A61F 2002/3629	. . . . .	{inclined obliquely}
A61F 2002/3631	. . . . .	{with an integral complete or partial peripheral collar or bearing shoulder at its base}
A61F 2002/3633	. . . . .	{with an integral protrusion extending distally under the collar}
A61F 2002/3635	. . . . .	{having a separate element placed under the collar}
A61F 2002/3637	. . . . .	{with an angled portion, e.g. oriented towards the lesser trochanter}
A61F 2002/3639	. . . . .	{with cut-outs}

A61F 2002/3641	. . . . .	{pierced with apertures perpendicular to the collar longitudinal axis}
A61F 2002/3643	. . . . .	{pierced with apertures parallel or oblique w.r.t. the collar longitudinal axis}
A61F 2002/3645	. . . . .	{hollow}
A61F 2002/3647	. . . . .	{pierced with a longitudinal bore}
A61F 2002/3649	. . . . .	{offset from the neck central longitudinal axis}
A61F 2002/365	. . . . .	{Connections of heads to necks}
A61F 2002/3652	. . . . .	{Connections of necks to shafts}
A61F 2002/3654	. . . . .	{Connections of heads directly to shafts}
A61F 2002/3656	. . . . .	{with angular positioning means for selecting any one of a plurality of radial orientations, e.g. at discrete positions}
A61F 2002/3658	. . . . .	{Two angular positions, e.g. located at 180 degrees intervals}
A61F 2002/366	. . . . .	{at continuous positions}
A61F 2/3662	. . . . .	{Femoral shafts}
A61F 2002/3664	. . . . .	{with non-sharp protrusions}
A61F 2002/3666	. . . . .	{Circumferential flanges or fins}
A61F 2002/3668	. . . . .	{Longitudinal fins or wings, e.g. for preventing rotation within the intramedullary bone cavity}
A61F 2/367	. . . . .	{Proximal or metaphyseal parts of shafts (trochanteric devices connected to said proximal parts A61F 2/30739)}
A61F 2/3672	. . . . .	{Intermediate parts of shafts}
A61F 2002/3674	. . . . .	{Connections of proximal parts to distal parts}
A61F 2/3676	. . . . .	{Distal or diaphyseal parts of shafts}
A61F 2002/3678	. . . . .	{Geometrical features}
A61F 2002/368	. . . . .	{with lateral apertures, bores, holes or openings, e.g. for reducing the mass, for receiving fixation screws or for communicating with the inside of a hollow shaft}
A61F 2002/3682	. . . . .	{Oblong apertures}
A61F 2002/3684	. . . . .	{inclined obliquely w.r.t. the shaft longitudinal axis, e.g. along the neck axis}
A61F 2002/3686	. . . . .	{bent}
A61F 2002/3688	. . . . .	{with opposite proximal and distal curvatures, i.e. S-shaped shaft}
A61F 2002/369	. . . . .	{Stepped shaft, i.e. having discrete diameter changes}
A61F 2002/3692	. . . . .	{hollow}
A61F 2002/3694	. . . . .	{with longitudinal bores}
A61F 2002/3696	. . . . .	{slotted}
A61F 2002/3698	. . . . .	{twisted about the longitudinal axis of the shaft}
A61F 2/38	. . .	for elbows or knees

NOTE

A61F 2/38

(continued)

Documents, which are of interest for more than one of the following subgroups, are classified in the hierarchically higher group only

A61F 2/3804	. . . .	{for elbows}
A61F 2002/3809	. . . .	{for radio-humeral joints}
A61F 2002/3813	. . . .	{for ulno-humeral joints}
A61F 2002/3818	. . . .	{for proximal radio-ulnar joints, i.e. PRU joints}
A61F 2002/3822	. . . .	{Humeral components}
A61F 2002/3827	. . . .	{Radial components}
A61F 2002/3831	. . . .	{Ulnar components}
A61F 2/3836	. . . .	{Special connection between upper and lower leg, e.g. constrained}
A61F 2/384	. . . .	{hinged, i.e. with transverse axle restricting the movement}
A61F 2/3845	. . . .	{allowing only for single rotation}
A61F 2/385	. . . .	{also provided with condylar bearing surfaces}
A61F 2/3854	. . . .	{with ball and socket joint}
A61F 2/3859	. . . .	{Femoral components}
A61F 2002/3863	. . . .	{Condyles fitted on an anchored base}
A61F 2/3868	. . . .	{with sliding tibial bearing}
A61F 2/3872	. . . .	{Meniscus for implantation between the natural bone surfaces}
A61F 2/3877	. . . .	{Patellae or trochleae}
A61F 2002/3881	. . . .	{with moving parts}
A61F 2/3886	. . . .	{for stabilising knees against anterior or lateral dislocations}
A61F 2/389	. . . .	{Tibial components (A61F 2/3868 takes precedence)}
A61F 2002/3895	. . . .	{unicompartmental}
A61F 2/40	. . .	for shoulders

NOTE

Documents, which are of interest for more than one of the following subgroups, are classified in the hierarchically higher group only

A61F 2/4003	. . . .	{Replacing only the epiphyseal or metaphyseal parts of the humerus, i.e. endoprosthesis not comprising an entire humeral shaft (replacing only the epiphyseal or metaphyseal parts of the femur A61F 2/3601)}
A61F 2002/4007	. . . .	{implanted without ablation of the whole natural humeral head}
A61F 2002/4011	. . . .	{including proximal or total replacement of the humerus}
A61F 2/4014	. . . .	{Humeral heads or necks; Connections of endoprosthetic heads or necks to endoprosthetic humeral shafts}
A61F 2002/4018	. . . .	{Heads or epiphyseal parts of humerus}
A61F 2002/4022	. . . .	{having a concave shape, e.g. hemispherical cups}
A61F 2002/4025	. . . .	{hollow}
A61F 2002/4029	. . . .	{Necks}
A61F 2002/4033	. . . .	{with an integral complete or partial peripheral collar at its base}
A61F 2002/4037	. . . .	{Connections of heads to necks}

A61F 2002/404	. . . . .	{with a clearance between proximal end of neck and inner end of head}
A61F 2002/4044	. . . . .	{Connections of necks to shafts}
A61F 2002/4048	. . . . .	{with an inner clearance between both parts}
A61F 2002/4051	. . . . .	{Connections of heads directly to shafts}
A61F 2002/4055	. . . . .	{with an inner clearance between both parts}
A61F 2/4059	. . . . .	{Humeral shafts}
A61F 2002/4062	. . . . .	{Proximal or metaphyseal parts of shafts}
A61F 2002/4066	. . . . .	{for replacement or reinforcement of the greater tubercle}
A61F 2002/407	. . . . .	{Intermediate parts of shafts}
A61F 2002/4074	. . . . .	{Connections of proximal or metaphyseal parts to distal or diaphyseal parts}
A61F 2002/4077	. . . . .	{Distal or diaphyseal parts of shafts}
A61F 2/4081	. . . . .	{Glenoid components, e.g. cups}
A61F 2002/4085	. . . . .	{having a convex shape, e.g. hemispherical heads}
A61F 2002/4088	. . . . .	{Acromial components}
A61F 2002/4092	. . . . .	{Clavicular components}
A61F 2002/4096	. . . . .	{Coracoid process components}
A61F 2/42	. . . . .	for wrists or ankles; for hands, e.g. fingers; for feet, e.g. toes
A61F 2/4202	. . . . .	{for ankles}
A61F 2002/4205	. . . . .	{Tibial components}
A61F 2002/4207	. . . . .	{Talar components}
A61F 2002/421	. . . . .	{Fibular components, e.g. fibular-malleolar shields}
A61F 2002/4212	. . . . .	{Tarsal bones}
A61F 2002/4215	. . . . .	{Lateral row of tarsal bones}
A61F 2002/4217	. . . . .	{Calcaneum or calcaneus or heel bone}
A61F 2002/422	. . . . .	{Medial row of tarsal bones}
A61F 2002/4223	. . . . .	{Implants for correcting a flat foot}
A61F 2/4225	. . . . .	{for feet, e.g. toes}
A61F 2002/4228	. . . . .	{for interphalangeal joints, i.e. IP joints}
A61F 2002/423	. . . . .	{for big or great toes}
A61F 2002/4233	. . . . .	{for metatarso-phalangeal joints, i.e. MTP joints}
A61F 2002/4235	. . . . .	{for big or great toes}
A61F 2002/4238	. . . . .	{for tarso-metatarsal joints, i.e. TMT joints}
A61F 2/4241	. . . . .	{for hands, e.g. fingers}
A61F 2002/4243	. . . . .	{for interphalangeal joints, i.e. IP joints}
A61F 2002/4246	. . . . .	{for distal interphalangeal joints, i.e. DIP joints}
A61F 2002/4248	. . . . .	{for proximal interphalangeal joints, i.e. PIP joints}
A61F 2002/4251	. . . . .	{for metacarpo-phalangeal joints, i.e. MCP or MP joints, e.g. knuckle joints}
A61F 2002/4253	. . . . .	{for thumbs}

A61F 2002/4256	. . . . .	{for carpo-metacarpal joints, i.e. CMC joints}
A61F 2002/4258	. . . . .	{for trapezo-metacarpal joints of thumbs}
A61F 2/4261	. . . . .	{for wrists}
A61F 2002/4264	. . . . .	{for radio-carpal joints}
A61F 2002/4266	. . . . .	{for ulno-carpal joints}
A61F 2002/4269	. . . . .	{for distal radio-ulnar joints, i.e. DRU joints}
A61F 2002/4271	. . . . .	{Carpal bones}
A61F 2002/4274	. . . . .	{Distal carpal row, i.e. bones adjacent the metacarpal bones}
A61F 2002/4276	. . . . .	{Trapezium}
A61F 2002/4279	. . . . .	{Trapezoid}
A61F 2002/4282	. . . . .	{Capitate}
A61F 2002/4284	. . . . .	{Hamate}
A61F 2002/4287	. . . . .	{Proximal carpal row, i.e. bones adjacent the radius and the ulna}
A61F 2002/4289	. . . . .	{Scaphoid or navicular bone}
A61F 2002/4292	. . . . .	{Lunate}
A61F 2002/4294	. . . . .	{Triquetrum}
A61F 2002/4297	. . . . .	{Pisiform bone}
A61F 2/44	. . . . .	for the spine, e.g. vertebrae, spinal discs
A61F 2/4405	. . . . .	{for apophyseal or facet joints, i.e. between adjacent spinous or transverse processes (devices implanted between spinous or transverse processes A61B 17/7062)}
A61F 2/441	. . . . .	{made of inflatable pockets or chambers filled with fluid, e.g. with hydrogel}
A61F 2002/4415	. . . . .	{elements of the prosthesis being arranged in a chain like manner}
A61F 2/442	. . . . .	{Intervertebral or spinal discs, e.g. resilient (non-disc-shaped intervertebral inflatable pockets A61F 2/441 ; non-disc-shaped intervertebral fusion implants A61F 2/4455)}
A61F 2/4425	. . . . .	{made of articulated components}
A61F 2002/443	. . . . .	{having two transversal endplates and at least one intermediate component}
A61F 2002/4435	. . . . .	{Support means or repair of the natural disc wall, i.e. annulus, e.g. using plates, membranes or meshes}
A61F 2002/444	. . . . .	{for replacing the nucleus pulposus}
A61F 2002/4445	. . . . .	{Means for culturing intervertebral disc tissue}
A61F 2002/445	. . . . .	{Intervertebral disc tissue harvest sites}
A61F 2/4455	. . . . .	{for the fusion of spinal bodies, e.g. intervertebral fusion of adjacent spinal bodies, e.g. fusion cages (intervertebral discs A61F 2/442)}
A61F 2/446	. . . . .	{having a circular or elliptical cross-section substantially parallel to the axis of the spine, e.g. cylinders or frustocones}
A61F 2/4465	. . . . .	{having a circular or kidney shaped cross-section substantially perpendicular to the axis of the spine}

A61F 2/447	. . . . .	{substantially parallelepipedal, e.g. having a rectangular or trapezoidal cross-section}
A61F 2002/4475	. . . . .	{hollow}
A61F 2002/448	. . . . .	{comprising multiple adjacent spinal implants within the same intervertebral space or within the same vertebra, e.g. comprising two adjacent spinal implants}
A61F 2002/4485	. . . . .	{comprising three or more adjacent spinal implants}
A61F 2002/449	. . . . .	{comprising multiple spinal implants located in different intervertebral spaces or in different vertebrae}
A61F 2002/4495	. . . . .	{having a fabric structure e.g. made from wires or fibres}
A61F 2/46	. . . . .	Special tools or methods for implanting or extracting artificial joints, accessories, bone grafts or substitutes, or particular adaptations therefor
A61F 2/4601	. . . . .	{for introducing bone substitute, for implanting bone graft implants or for compacting them in the bone cavity (for introducing bone cement A61B 17/8805)}
A61F 2002/4602	. . . . .	{for compacting}
A61F 2/4603	. . . . .	{for insertion or extraction of endoprosthetic joints or of accessories thereof}
A61F 2/4605	. . . . .	{of elbows}
A61F 2/4606	. . . . .	{of wrists or ankles; of hands, e.g. fingers; of feet, e.g. toes}
A61F 2/4607	. . . . .	{of hip femoral endoprostheses}
A61F 2/4609	. . . . .	{of acetabular cups}
A61F 2/461	. . . . .	{of knees}
A61F 2/4611	. . . . .	{of spinal prostheses}
A61F 2/4612	. . . . .	{of shoulders}
A61F 2/4614	. . . . .	{of plugs for sealing a cement-receiving space}
A61F 2002/4615	. . . . .	{of spacers}
A61F 2002/4616	. . . . .	{of temporo-mandibular joints}
A61F 2/4618	. . . . .	{of cartilage}
A61F 2002/4619	. . . . .	{for extraction}
A61F 2002/462	. . . . .	{of broken endoprosthetic joint parts}
A61F 2002/4622	. . . . .	{having the shape of a forceps or a clamp}
A61F 2002/4623	. . . . .	{having a handle portion, e.g. integral with the implanting tool}
A61F 2002/4624	. . . . .	{releasable from the implanting tool}
A61F 2002/4625	. . . . .	{with relative movement between parts of the instrument during use}
A61F 2002/4627	. . . . .	{with linear motion along or rotating motion about the instrument axis or the implantation direction, e.g. telescopic, along a guiding rod, screwing inside the instrument}
A61F 2002/4628	. . . . .	{with linear motion along or rotating motion about an axis transverse to the instrument axis or to the implantation direction, e.g. clamping}
A61F 2002/4629	. . . . .	{connected to the endoprosthesis or implant via a threaded connection}

A61F 2002/4631	. . . .	{the prosthesis being specially adapted for being cemented}
A61F 2002/4632	. . . .	{using computer-controlled surgery, e.g. robotic surgery}
A61F 2002/4633	. . . .	{for selection of endoprosthetic joints or for pre-operative planning}
A61F 2002/4635	. . . .	{using minimally invasive surgery}
A61F 2002/4636	. . . .	{through the hip femoral neck}
A61F 2/4637	. . . .	{for connecting or disconnecting two parts of a prosthesis}
A61F 2002/4638	. . . .	{Tools for performing screwing, e.g. nut or screwdrivers, or particular adaptations therefor}
A61F 2002/464	. . . .	{of end caps for closing a prosthetic cavity}
A61F 2002/4641	. . . .	{for disconnecting}
A61F 2002/4642	. . . .	{for inserting or connecting a locking mechanism}
A61F 2/4644	. . . .	{Preparation of bone graft, bone plugs or bone dowels, e.g. grinding or milling bone material (bone material A61F 2/28 ; disintegrating or milling devices B02C)}
A61F 2002/4645	. . . .	{Devices for grinding or milling bone material}
A61F 2002/4646	. . . .	{Devices for cleaning bone graft}
A61F 2002/4648	. . . .	{Means for culturing bone graft}
A61F 2002/4649	. . . .	{Bone graft or bone dowel harvest sites}
A61F 2002/465	. . . .	{using heating means}
A61F 2002/4651	. . . .	{Electric or electromagnetic heating}
A61F 2002/4653	. . . .	{using cooling means}
A61F 2002/4654	. . . .	{Cryogenic cooling}
A61F 2002/4655	. . . .	{for introducing lubricating fluid}
A61F 2/4657	. . . .	{Measuring instruments used for implanting artificial joints (for surgical instruments A61B 19/46)}
A61F 2002/4658	. . . .	{for measuring dimensions, e.g. length}
A61F 2002/4659	. . . .	{for measuring a diameter}
A61F 2002/4661	. . . .	{for measuring thickness}
A61F 2002/4662	. . . .	{for measuring penetration depth}
A61F 2002/4663	. . . .	{for measuring volumes or other three-dimensional shapes}
A61F 2002/4664	. . . .	{for measuring conicities}
A61F 2002/4666	. . . .	{for measuring force, pressure or mechanical tension}
A61F 2002/4667	. . . .	{for measuring torque}
A61F 2002/4668	. . . .	{for measuring angles}
A61F 2002/467	. . . .	{for measuring fluid pressure}
A61F 2002/4671	. . . .	{for measuring resonant frequency}
A61F 2002/4672	. . . .	{for measuring temperature}
A61F 2002/4674	. . . .	{for measuring the pH}
A61F 2/4675	. . . .	{for cleaning or coating bones, e.g. bone cavities, prior to endoprosthesis implantation or bone cement introduction (for cleaning teeth cavities A61C 17/00 ; irrigators A61M 3/02)}
A61F 2002/4676	. . . .	{for coating the bony surface}

A61F 2002/4677	. . . . {using a guide wire}
A61F 2002/4679	. . . . {having quick release means}
A61F 2/468	. . . . {Testing instruments for artificial joints (for testing non-implantable prostheses A61F 2/76)}
A61F 2002/4681	. . . . {by applying mechanical shocks, e.g. by hammering}
A61F 2002/4683	. . . . . {by applying ultrasonic vibrations}
A61F 2/4684	. . . . {Trial or dummy prostheses}
A61F 2002/4685	. . . . {by means of vacuum}
A61F 2002/4687	. . . . {Mechanical guides for implantation instruments}
A61F 2002/4688	. . . . {having operating or control means}
A61F 2002/4689	. . . . . {acoustic}
A61F 2002/469	. . . . . {electrical}
A61F 2002/4692	. . . . . {fluid}
A61F 2002/4693	. . . . . {hydraulic}
A61F 2002/4694	. . . . . {pneumatic}
A61F 2002/4696	. . . . . {optical}
A61F 2002/4697	. . . . . {visual}
A61F 2002/4698	. . . . . {magnetic}
A61F 2002/48	. . {Operating or control means}
A61F 2002/481	. . . {acoustic or audible}
A61F 2002/482	. . . {electrical}
A61F 2002/484	. . . {fluid}
A61F 2002/485	. . . . {hydraulic}
A61F 2002/487	. . . . {pneumatic}
A61F 2002/488	. . . {Means for detecting or monitoring wear}
A61F 2/50	. Prostheses not implantable in the body {(closure means for urethra or rectum or for artificial body openings therefor A61F 2/0004)}
A61F 2002/5001	. . {Cosmetic coverings}
A61F 2002/5003	. . {having damping means, e.g. shock absorbers (for implantable joints A61F 2002/30563)}
A61F 2002/5004	. . . {operated by electro- or magnetorheological fluids}
A61F 2002/5006	. . . {Dampers, e.g. hydraulic damper}
A61F 2002/5007	. . {having elastic means different from springs, e.g. including an elastomeric insert (elastic coating A61F 2002/3007 ; springs A61F 2002/5072 ; plate-like springs for feet A61F 2002/6657)}
A61F 2002/5009	. . . {having two or more elastomeric blocks}
A61F 2002/501	. . {having an inflatable pocket filled with fluid, i.e. liquid or gas (A61F 2/602 , A61F 2002/74 , A61F 2/7843 take precedence; for lubrication A61F 2002/5086)}
A61F 2002/5012	. . . {having two or more inflatable pockets}
A61F 2002/5013	. . . {filled with particles (for joints A61F 2002/30588)}

A61F 2002/5015	. . . {hardenable fluid, e.g. curable in-situ or cold-hardening casting substance}
A61F 2002/5016	. . {adjustable (for implantable prostheses A61F 2002/30537)}
A61F 2002/5018	. . . {for adjusting angular orientation}
A61F 2002/502	. . . {for adjusting length (for implantable joints A61F 2002/3055)}
A61F 2002/5021	. . . {for adjusting a position by translation along an axis}
A61F 2002/5023	. . . . {along two perpendicular axes}
A61F 2002/5024	. . . {for adjusting thickness}
A61F 2002/5026	. . . {for adjusting a diameter}
A61F 2002/5027	. . . {for adjusting cross-section}
A61F 2002/5029	. . . {for adjusting weight or mass}
A61F 2002/503	. . . {for adjusting elasticity, flexibility, spring rate or mechanical tension}
A61F 2002/5032	. . . {for adjusting fluid pressure (inflatable pockets A61F 2002/501 , A61F 2/602 , A61F 2/7843 ; fluid operating or control means A61F 2002/74)}
A61F 2002/5033	. . . {for adjusting damping (damping means A61F 2002/5003)}
A61F 2002/5035	. . . {for adjusting volume flow}
A61F 2002/5036	. . . {self-adjustable, e.g. self-learning}
A61F 2002/5038	. . {Hinged joint, e.g. with transverse axle restricting the movement (for implantable joints A61F 2002/30624)}
A61F 2002/5039	. . . {allowing only for single rotation}
A61F 2002/5041	. . . {having bearing bushes between the rotating parts}
A61F 2002/5043	. . . {with rotation-limiting stops, e.g. projections or recesses}
A61F 2/5044	. . {Designing or manufacturing processes (not used, see subgroup)}
A61F 2/5046	. . . {for designing or making customized prostheses, e.g. using templates, finite-element analysis or CAD-CAM techniques}
A61F 2002/5047	. . . . {using mathematical models (A61F 2002/505 takes precedence)}
A61F 2002/5049	. . . . . {Computer aided shaping, e.g. rapid prototyping}
A61F 2002/505	. . . . {using CAD-CAM techniques or NC-techniques}
A61F 2002/5052	. . . . {Direct moulding or reforming to the stump}
A61F 2002/5053	. . . . {using a positive or a negative model, e.g. casting model or mould}
A61F 2002/5055	. . . {Reinforcing prostheses by embedding particles or fibres during moulding or dipping, e.g. carbon fibre composites}
A61F 2002/5056	. . . {Laminates, i.e. layered products}
A61F 2002/5058	. . {having means for restoring the perception of senses}
A61F 2002/5059	. . . {the feeling of position}
A61F 2002/5061	. . . {the sense of touch}
A61F 2002/5063	. . . {the feeling of temperature, i.e. of warmth or cold}
A61F 2002/5064	. . . {for reducing pain from phantom limbs}
A61F 2002/5066	. . {Muscles (implantable A61F 2002/0894)}
A61F 2002/5067	. . {having rolling elements between articulating surfaces (for implantable joints A61F 2002/30639)}

A61F 2002/5069	. . .	{Ball bearings}
A61F 2002/507	. . .	{Roller bearings}
A61F 2002/5072	. .	{having spring elements (spring-biased locking means A61F 2002/30505 ; for implantable joints A61F 2002/30565 ; other elastic means A61F 2002/5007)}
A61F 2002/5073	. . .	{Helical springs, e.g. having at least one helical spring}
A61F 2002/5075	. . . .	{Multiple spring systems including two or more helical springs}
A61F 2002/5076	. . . . .	{Concentric outer and inner helical springs}
A61F 2002/5078	. . .	{2-D spiral springs}
A61F 2002/5079	. . .	{Leaf springs (A61F 2002/6657 takes precedence)}
A61F 2002/5081	. .	{Additional features (for implantable joints A61F 2002/30535)}
A61F 2002/5083	. . .	{modular}
A61F 2002/5084	. . .	{telescopic (adjusting length A61F 2002/502)}
A61F 2002/5086	. . .	{Lubricating means}
A61F 2002/5087	. . .	{Sound-damping or noise-reducing means}
A61F 2002/5089	. . .	{waterproof}
A61F 2002/509	. . .	{specially designed for children, e.g. having means for adjusting to their growth (implantable A61F 2250/0082)}
A61F 2002/5092	. . .	{Identification means (for implantable prostheses A61F 2250/0085)}
A61F 2002/5093	. .	{Tendon- or ligament-replacing cables (implantable A61F 2/08)}
A61F 2002/5095	. . .	{for Achilles tendons}
A61F 2002/5096	. .	{Ball-and-socket joints (for implantable joints A61F 2002/30649)}
A61F 2002/5098	. . .	{with rotation-limiting means}
A61F 2/52	. .	Mammary prostheses (brassieres A41C 3/00)
A61F 2002/523	. . .	{Multiple breast forms made of several concentric breast-shaped layers nested into one another}
A61F 2002/526	. . .	{Nipples}
A61F 2/54	. .	Artificial arms or hands or parts thereof
A61F 2002/543	. . .	{Lower arms or forearms}
A61F 2002/546	. . .	{Upper arms}
A61F 2/58	. . .	Elbows; Wrists; {Other joints; Hands}
A61F 2/581	. . . .	{Shoulder joints}
A61F 2/582	. . . .	{Elbow joints}
A61F 2/583	. . . .	{Hands; Wrist joints}
A61F 2/585	. . . . .	{Wrist joints}
A61F 2/586	. . . . .	{Fingers}
A61F 2002/587	. . . . .	{Thumbs}
A61F 2/588	. . . . .	{Hands having holding devices shaped differently from human fingers, e.g. claws, hooks, tubes}
A61F 2/60	. .	Artificial legs or feet or parts thereof
A61F 2/601	. . .	{Peg legs, e.g. wooden legs}
A61F 2/602	. . .	{with air cushions (A61F 2/7843 takes precedence)}

A61F 2/604	. . .	{Joints for artificial legs (A61F 2/605 , A61F 2/64 , A61F 2/6607 take precedence)}
A61F 2/605	. . .	{Hip joints}
A61F 2002/607	. . .	{Lower legs}
A61F 2002/608	. . .	{Upper legs}
A61F 2/64	. . .	Knee joints
A61F 2/642	. . . .	{Polycentric joints, without longitudinal rotation}
A61F 2/644	. . . . .	{of the single-bar or multi-bar linkage type}
A61F 2/646	. . . . .	{of the pin-guiding groove linkage type}
A61F 2002/648	. . . .	{Patellae}
A61F 2/66	. . .	Feet; Ankle joints
A61F 2/6607	. . . .	{Ankle joints}
A61F 2002/6614	. . . .	{Feet}
A61F 2002/6621	. . . . .	{Toes}
A61F 2002/6628	. . . . .	{Big toes}
A61F 2002/6635	. . . . .	{Metatarsals}
A61F 2002/6642	. . . . .	{Heels}
A61F 2002/665	. . . . .	{Soles}
A61F 2002/6657	. . . . .	{having a plate-like or strip-like spring element, e.g. an energy-storing cantilever spring keel}
A61F 2002/6664	. . . . .	{Dual structures made of two connected cantilevered leaf springs}
A61F 2002/6671	. . . . .	{C-shaped}
A61F 2002/6678	. . . . .	{L-shaped}
A61F 2002/6685	. . . . .	{S-shaped}
A61F 2002/6692	. . . . .	{circular or loop-shaped}
A61F 2/68	. .	Operating or control means
A61F 2002/6809	. . .	{acoustic}
A61F 2002/6818	. . .	{for braking}
A61F 2002/6827	. . .	{Feedback system for providing user sensation, e.g. by force, contact or position}
A61F 2002/6836	. . .	{Gears specially adapted therefor, e.g. reduction gears}
A61F 2002/6845	. . .	{Clutches}
A61F 2002/6854	. . .	{for locking or unlocking a joint}
A61F 2002/6863	. . .	{magnetic (magnetic prosthetic parts A61F 2002/30079)}
A61F 2002/6872	. . .	{attached and mechanically operated by remaining muscle (bioelectrical control A61F 2/72)}
A61F 2002/6881	. . .	{optical}
A61F 2002/689	. . .	{Alarm means, e.g. acoustic}
A61F 2/70	. . .	electrical {(not used, see A61F 2/68 and A61F 2/72)}
A61F 2002/701	. . . .	{operated by electrically controlled means, e.g. solenoids or torque motors}

A61F 2002/702	. . . .	{Battery-charging stations}
A61F 2002/704	. . . .	{computer-controlled, e.g. robotic control}
A61F 2002/705	. . . .	{Electromagnetic data transfer (for implantable prostheses A61F 2250/0002)}
A61F 2002/707	. . . .	{Remote control}
A61F 2002/708	. . . .	{electrically self charging}
A61F 2/72	. . . .	Bioelectrical control, e.g. myoelectric
A61F 2002/74	. . . .	{fluid, i.e. hydraulic or pneumatic (inflatable pocket filled with fluid A61F 2002/501)}
A61F 2002/741	. . . .	{using powered actuators, e.g. stepper motors or solenoids}
A61F 2002/742	. . . .	{Low pressure systems, e.g. vacuum pump}
A61F 2002/744	. . . .	{Vane- or curved-cylinder type actuators, e.g. actuators using rotary pistons}
A61F 2002/745	. . . .	{hydraulic}
A61F 2002/747	. . . .	{pneumatic}
A61F 2002/748	. . . .	{Valve systems}
A61F 2/76	. .	Means for assembling, fitting or testing prostheses, e.g. for measuring or balancing, {e.g. alignment means}
A61F 2002/7605	. . .	{for assembling by heating (for implanting artificial joints A61F 2002/465)}
A61F 2002/761	. . .	{for assembling by cooling (for implanting artificial joints A61F 2002/4653)}
A61F 2002/7615	. . .	{Measuring means (for implanting artificial joints A61F 2/4657)}
A61F 2002/762	. . . .	{for measuring dimensions, e.g. a distance}
A61F 2002/7625	. . . .	{for measuring angular position}
A61F 2002/763	. . . .	{for measuring spatial position, e.g. global positioning system [GPS]}
A61F 2002/7635	. . . .	{for measuring force, pressure or mechanical tension}
A61F 2002/764	. . . .	{for measuring acceleration}
A61F 2002/7645	. . . .	{for measuring torque, e.g. hinge or turning moment, moment of force}
A61F 2002/765	. . . .	{for measuring time or frequency}
A61F 2002/7655	. . . .	{for measuring fluid pressure}
A61F 2002/766	. . . .	{for measuring moisture}
A61F 2002/7665	. . . .	{for measuring temperatures}
A61F 2002/767	. . . .	{for measuring blood pressure}
A61F 2002/7675	. . . .	{for measuring oxygen content}
A61F 2002/768	. . . .	{for measuring battery status}
A61F 2002/7685	. . . .	{located on natural or sound-site limbs, e.g. comparison measuring means}
A61F 2002/769	. . . .	{Displaying measured values}
A61F 2002/7695	. . .	{Means for testing non-implantable prostheses (for testing implantable prostheses A61F 2240/008 ; for implanting artificial joints A61F 2/468)}
A61F 2/78	. .	Means for protecting prostheses or for attaching them to the body, e.g. bandages, harnesses, straps, or stockings for the limb stump

- A61F 2002/7806 . . . {using adhesive means (for connecting prosthetic parts [A61F 2002/30448](#))}
- A61F 2/7812 . . . {Interface cushioning members placed between the limb stump and the socket, e.g. bandages or stockings for the limb stump}
- A61F 2002/7818 {Stockings or socks for the limb stump (cosmetic coverings [A61F 2/0059](#))}
- A61F 2002/7825 {Devices for putting-on or pulling-off stockings}
- A61F 2002/7831 {with a rope for pulling the sock inside the socket}
- A61F 2002/7837 {Sleeves for attaching or protecting, i.e. open ended hoses}
- A61F 2/7843 {Inflatable bladders}
- A61F 2002/785 {Pads, e.g. relief pads}
- A61F 2002/7856 {having finger loops or grips}
- A61F 2002/7862 {Harnesses, straps (for connecting prosthetic parts [A61F 2002/30464](#))}
- A61F 2002/7868 {Means for putting-on or pulling-off prostheses}
- A61F 2002/7875 {with releasable ratchets or pegs (snap connections [A61F 2002/305](#); pushing a peg into a hole [A61F 2002/3038](#))}
- A61F 2002/7881 {using hook and loop-type fasteners (for connecting prosthetic parts [A61F 2002/30467](#))}
- A61F 2002/7887 {for connecting limb exoprostheses to the stump bone}
- A61F 2002/7893 {using slide fasteners, e.g. zippers}
- A61F 2/80 Sockets, e.g. of suction type
- A61F 2002/802 {Suction sockets, i.e. utilizing differential air pressure to retain the prosthesis on the stump}
- A61F 2002/805 {having an air valve}
- A61F 2002/807 {having a vacuum reservoir chamber}
- A61F 2/82 Devices providing patency to, or preventing collapsing of, tubular structures of the body, e.g. stents (stent-grafts for tubular structures of the body other than blood vessels [A61F 2/04](#); stent-grafts for blood vessels [A61F 2/07](#); instruments specially adapted for placement or removal of stents or stent-grafts [A61F 2/95](#); for closing wounds, or holding wounds closed [A61B 17/04](#) to [A61B 17/115](#); dilators [A61M 29/00](#))
- A61F 2002/821 . . . {Ostial stents}
- A61F 2002/823 . . . {Stents, different from stent-grafts, adapted to cover an aneurysm}
- A61F 2002/825 . . . {having longitudinal struts}
- A61F 2002/826 . . . {more than one stent being applied sequentially}
- A61F 2002/828 . . . {Means for connecting a plurality of stents allowing flexibility of the whole structure}
- A61F 2/844 . . . folded prior to deployment
- A61F 2/848 . . . having means for fixation to the vessel wall, e.g. barbs
- A61F 2002/8483 {Barbs}
- A61F 2002/8486 {provided on at least one of the ends}
- A61F 2/852 . . . Two or more distinct overlapping stents
- A61F 2/856 . . . Single tubular stent with a side portal passage

- A61F 2/86 . . Stents in a form characterised by the wire-like elements; Stents in the form characterised by a net-like or mesh-like structure
- A61F 2/88 . . . the wire-like elements formed as helical or spiral coils (forming a net-like or mesh-like structure [A61F 2/90](#))
- A61F 2/885 {comprising a coil including a plurality of spiral or helical sections with alternate directions around a central axis}
- A61F 2/89 . . . the wire-like elements comprising two or more adjacent rings flexibly connected by separate members
- A61F 2/90 . . . characterised by a net-like or mesh-like structure
- A61F 2/91 made from perforated sheet material or tubes, e.g. perforated by laser cuts or etched holes
- A61F 2/915 with bands having a meander structure, adjacent bands being connected to each other
- A61F 2002/91508 {the meander having a difference in amplitude along the band}
- A61F 2002/91516 {the meander having a change in frequency along the band}
- A61F 2002/91525 {within the whole structure different bands showing different meander characteristics, e.g. frequency or amplitude}
- A61F 2002/91533 {characterised by the phase between adjacent bands}
- A61F 2002/91541 {Adjacent bands are arranged out of phase}
- A61F 2002/9155 {Adjacent bands being connected to each other}
- A61F 2002/91558 {connected peak to peak}
- A61F 2002/91566 {connected trough to trough}
- A61F 2002/91575 {connected peak to trough}
- A61F 2002/91583 {by a bridge, whereby at least one of its ends is connected along the length of a strut between two consecutive apices within a band}
- A61F 2002/91591 {Locking connectors, e.g. using male-female connections}
- A61F 2/92 . . Stents in the form of a rolled-up sheet expanding after insertion into the vessel, {e.g. with a spiral shape in cross-section}
- A61F 2/93 . . . circumferentially expandable by using ratcheting locks
- A61F 2/94 . . Stents retaining their form, i.e. not being deformable, after placement in the predetermined place
- A61F 2/945 . . . hardenable, e.g. stents formed in situ
- A61F 2/95 . Instruments specially adapted for placement or removal of stents or stent-grafts
- A61F 2002/9505 . . {having retaining means other than an outer sleeve, e.g. male-female connector between stent and instrument}
- A61F 2002/9511 . . . {the retaining means being filaments or wires}
- A61F 2002/9517 . . {handle assemblies therefor}
- A61F 2002/9522 . . {Means for mounting a stent onto the placement instrument}
- A61F 2002/9528 . . {for retrieval of stents}
- A61F 2002/9534 . . {for repositioning of stents}
- A61F 2/954 . . for placing stents or stent-grafts in a bifurcation
- A61F 2/958 . . Inflatable balloons for placing stents or stent-grafts

- A61F 2002/9583 . . . {Means for holding the stent on the balloon, e.g. using protrusions, adhesives or an outer sleeve}
- A61F 2002/9586 {the means being inside the balloon}
- A61F 2/962 . . having an outer sleeve
- A61F 2/966 . . . with relative longitudinal movement between outer sleeve and prosthesis, e.g. using a push rod
- A61F 2002/9665 {with additional retaining means}
- A61F 2/97 . . . the outer sleeve being splittable

A61F 3/00 Lengthening pieces for natural legs

A61F 4/00 Methods or devices enabling invalids to operate an apparatus or a device not forming part of the body (operating or control means for prostheses [A61F 2/68](#); {serving devices for one-handed persons [A47G 21/08](#)})

A61F 5/00 Orthopaedic methods or devices for non-surgical treatment of bones or joints (surgical instruments or methods for treatment of bones or joints, devices specially adapted therefor [A61B 17/56](#)); Nursing devices; {Anti-rape devices} (bandages, dressings or absorbent pads [A61F 13/00](#))

- A61F 5/0003 . {Apparatus for the treatment of obesity; Anti-eating devices (surgical instruments or methods for treatment of obesity, devices specially adapted therefor [A61B 17/00](#); hollow or tubular parts of organs [A61F 2/04](#))}
- A61F 5/0006 . . {Diet or mouth appliances}
- A61F 5/0009 . . {External belts}
- A61F 5/0013 . . {Implantable devices or invasive measures}
- A61F 2005/0016 . . . {comprising measuring means}
- A61F 2005/002 {for sensing mechanical parameters}
- A61F 2005/0023 {for sensing chemical parameters}
- A61F 5/0026 . . . {Anti-eating devices using electrical stimulation}
- A61F 5/003 . . . {inflatable}
- A61F 5/0033 {with more than one chamber}
- A61F 5/0036 . . . {Intragastrical devices}
- A61F 5/004 {remotely adjustable}
- A61F 5/0043 {using injection ports}
- A61F 5/0046 {with wireless means}
- A61F 5/005 . . . {Gastric bands}
- A61F 5/0053 {remotely adjustable}
- A61F 5/0056 {using injection ports}
- A61F 5/0059 {with wireless means}
- A61F 5/0063 {wrapping the stomach}
- A61F 5/0066 {Closing devices for gastric bands}
- A61F 5/0069 . . . {in the wall of the stomach}
- A61F 5/0073 . . . {in the abdominal cavity, e.g. not attached to the stomach}
- A61F 5/0076 . . . {preventing normal digestion, e.g. Bariatric or gastric sleeves}

A61F 5/0079	. . . . {Pyloric or esophageal obstructions}
A61F 5/0083	. . . {Reducing the size of the stomach, e.g. gastroplasty (surgical interventions A61B 17/00)}
A61F 5/0086	. . . . {using clamps, folding means or the like}
A61F 5/0089	. . {Instruments for placement or removal}
A61F 5/0093	. {Rectal devices, e.g. for the treatment of haemorrhoids}
A61F 5/0096	. {Anti-rape devices}
A61F 5/01	. Orthopaedic devices, e.g. splints, casts or braces
A61F 5/0102	. . {specially adapted for correcting deformities of the limbs or for supporting them; Ortheses, e.g. with articulations}
A61F 5/0104	. . . {without articulation}
A61F 5/0106	. . . . {for the knees}
A61F 5/0109	. . . . . {Sleeve-like structures}
A61F 5/0111	. . . . {for the feet or ankles}
A61F 5/0113	. . . . . {Drop-foot appliances}
A61F 5/0116	. . . . . {for connecting the feet to each other or to fixed surroundings (A61F 5/0193 takes precedence)}
A61F 5/0118	. . . . {for the arms, hands or fingers}
A61F 5/012	. . . {inflatable}
A61F 5/0123	. . . {for the knees (A61F 5/0106 takes precedence)}
A61F 5/0125	. . . . {the device articulating around a single pivot-point}
A61F 5/0127	. . . {for the feet (A61F 5/0111 takes precedence)}
A61F 5/013	. . . {for the arms, hands or fingers (A61F 5/0118 takes precedence)}
A61F 2005/0132	. . . {Additional features of the articulation}
A61F 2005/0134	. . . . {with two orthogonal pivots}
A61F 2005/0137	. . . . {with two parallel pivots}
A61F 2005/0139	. . . . . {geared}
A61F 2005/0141	. . . . {with more than two parallel pivots}
A61F 2005/0144	. . . . {Multibar}
A61F 2005/0146	. . . . {combining rotational and sliding movements, e.g. simulating movements of a natural joint}
A61F 2005/0148	. . . . . {Floating pivotal axis}
A61F 2005/0151	. . . . {combining rotational and torsional movements}
A61F 2005/0153	. . . . {combining rotational and stretching movements}
A61F 2005/0155	. . . . {with actuating means}
A61F 2005/0158	. . . . {with locking means}
A61F 2005/016	. . . . . {in standing position}
A61F 2005/0162	. . . . . {when weight is applied}
A61F 2005/0165	. . . . {with limits of movement}
A61F 2005/0167	. . . . . {adjustable}
A61F 2005/0169	. . . . {with damping means}

- A61F 2005/0172 {with cushions}
- A61F 2005/0174 {laterally placed}
- A61F 2005/0176 {supporting the patella}
- A61F 2005/0179 {with spring means}
- A61F 2005/0181 . . . {Protectors for articulations}
- A61F 2005/0183 {Hip protectors, e.g. for elderly people}
- A61F 2005/0186 {Thumb protectors}
- A61F 2005/0188 . . . {having pressure sensors}
- A61F 5/019 . . {Toe correcting or spreading devices}
- A61F 5/0193 . . {Apparatus specially adapted for treating hip dislocation; Abduction splints}
- A61F 5/0195 . . {Shoe-like orthopaedic devices for protecting the feet against injuries after operations}
- A61F 2005/0197 . . {with spring means}
- A61F 5/02 . . Orthopaedic corsets (arm-rests for use as writing aids [B43L 15/00](#))
- A61F 5/022 . . . {consisting of one or more shells}
- A61F 5/024 . . . {having pressure pads connected in a frame for reduction or correction of the curvature of the spine}
- A61F 5/026 . . . {Back straightening devices with shoulder braces to force back the shoulder to obtain a correct curvature of the spine (for clavicle fractures [A61F 5/05808](#); restraining devices [A61F 5/37](#))}
- A61F 5/028 . . . {Braces for providing support to the lower back, e.g. lumbo sacral supports}
- A61F 5/03 . . Corsets or bandages for abdomen, teat or breast support, with or without pads ({trusses [A61F 5/24](#), pressure-pads [A61F 5/30](#); brassieres [A41C 3/00](#))

NOTE

Bandages for support of breasts or abdomen are classified in group [A61F 13/14](#)

- A61F 5/04 . . Devices for stretching or reducing fractured limbs; Devices for distractions; Splints ({plaster of Paris bandages [A61F 13/04](#); with surgery [A61B 17/60](#))}
- A61F 5/042 . . . for extension or stretching
- A61F 5/048 Traction splints
- A61F 5/05 . . . for immobilising ([A61F 5/0102](#) takes precedence)
- A61F 5/055 Cervical collars
- A61F 5/058 Splints
- A61F 5/05808 {Splints for clavicle fractures}
- A61F 5/05816 {Inflatable splints}
- A61F 5/05825 {Strips of substantially planar form}
- A61F 5/05833 {Splints rigidified by vacuum evacuation}
- A61F 5/05841 {for the limbs ([A61F 5/05816](#), [A61F 5/05833](#) take precedence)}
- A61F 5/0585 {for the legs (toe correcting devices [A61F 5/019](#))}
- A61F 5/05858 {for the arms (restraining devices, e.g. slings [A61F 5/37](#))}
- A61F 5/05866 {for wrists, hands, fingers or thumbs}

- A61F 5/05875 {for fingers}
- A61F 5/05883 {for the neck or head ([A61F 5/05816](#), [A61F 5/05833](#) take precedence; cervical supports [A61F 5/055](#))}
- A61F 5/05891 {for the head, e.g. jaws, nose ([nose correcting A61F 5/08](#))}
- A61F 5/08 . . Devices for correcting deformities of the nose; {Devices for enlarging the nostril, e.g. for breathing improvement}
- A61F 5/10 . . Devices for correcting deformities of the fingers
- A61F 5/11 . . Devices for correcting deformities of the nails
- A61F 5/14 . . Special medical insertions for shoes for flat-feet, club-feet, or the like ([ordinary arch supports A43B 7/14](#))
- A61F 5/24 . . Trusses
- A61F 5/26 . . . with belt springs
- A61F 5/28 . . . Supports for trusses
- A61F 5/30 . . Pressure-pads ([corn-pads, corn-rings A61F 13/06](#); {[tourniquets A61B 17/132](#)})
- A61F 5/32 . . . Adjustable pressure pads
- A61F 5/34 . . . Pressure pads filled with air or liquid ([valves specially adapted for medical use A61M 39/00](#); [connection of valves to inflatable elastic bodies B60C 29/00](#); {[valves per se F16K](#)})
- A61F 5/37 . Restraining devices for the body or for body parts, {e.g. slings}; Restraining shirts {([handcuffs E05B 75/00](#))}
- A61F 5/3707 . . {for the head ([cervical supports A61F 5/055](#); [splints A61F 5/05883](#))}
- A61F 5/3715 . . {for attaching the limbs to other parts of the body}
- A61F 5/3723 . . . {for the arms}
- A61F 5/373 {for restricting the movement of the arm at the elbow}
- A61F 5/3738 {Slings}
- A61F 5/3746 {Jacket-like sling}
- A61F 5/3753 {Abduction support}
- A61F 5/3761 . . {for attaching the limbs to other objects ([A61F 5/3769](#) takes precedence)}
- A61F 5/3769 . . {for attaching the body to beds, wheel-chairs or the like}
- A61F 5/3776 . . . {by means of a blanket or belts ([to chairs only A61F 5/3792](#))}
- A61F 5/3784 {directly connected to the trunk, e.g. with jacket}
- A61F 5/3792 . . . {to chairs, e.g. wheelchairs ([A61F 5/3784](#) takes precedence)}
- A61F 5/40 . Suspensory bandages
- A61F 5/41 . Devices for promoting penis erection ([penis implants A61F 2/26](#); [massage of the genitals A61H 19/00](#))
- A61F 2005/411 . . {Penile supports}
- A61F 2005/412 . . {by vacuum means}
- A61F 2005/414 . . {by constricting means}
- A61F 2005/415 . . {by inflatable means}
- A61F 2005/417 . . {by vibrating means}
- A61F 2005/418 . . {by electrical stimulation}

- A61F 5/44
 - Devices worn by the patient for reception of urine, faeces, catamenial or other discharge; {Portable urination aids} (absorbent pads, e.g. sanitary towels, [A61F 13/15](#); drainage appliances for wounds [A61M 27/00](#); {emptying devices for urine bags [B65B 69/0016](#)}); Colostomy devices (adhesives for colostomy devices [A61L 24/00](#); materials for colostomy devices [A61L 28/00](#))
- A61F 5/4401
 - • {with absorbent pads (diapers [A61F 13/49](#))}
- A61F 2005/4402
 - • {disposable}
- A61F 5/4404
 - • {Details or parts}
- A61F 5/4405
 - • • {Valves or valve arrangements specially adapted therefor ([A61F 5/441](#) takes precedence); Fluid inlets or outlets ([A61F 5/4407](#) takes precedence)}
- A61F 5/4407
 - • • {Closure means other than valves}
- A61F 5/4408
 - • • {Means for securing receptacles or bags to the body otherwise than by adhesives, e.g. belts, straps or harnesses ([A61F 5/449](#) takes precedence)}
- A61F 5/441
 - • having {venting or} deodorant means, e.g. filters; {having antiseptic means, e.g. bacterial barriers}
- A61F 2005/4415
 - • {venting by manual operation}
- A61F 5/442
 - • having irrigation ports or means ([irrigators A61M 3/02](#))
- A61F 5/443
 - • having {adhesive seals for securing to the body, e.g. of} hydrocolloid type, e.g. gels, starches, karaya gums ({adhesives or sealing pads therefor [A61L 24/00](#))}
- A61F 5/445
 - • Colostomy, {ileostomy or urethrostomy} devices ([A61F 5/441](#), [A61F 5/442](#), [A61F 5/443](#) take precedence)
- A61F 2005/4455
 - • • {Implantable}
- A61F 5/448
 - • • Means for attaching bag to seal ring
- A61F 2005/4483
 - • • {Convex pressure ring}
- A61F 2005/4486
 - • • {with operable locking ring}
- A61F 5/449
 - • • Body securing means, e.g. belts, garments
- A61F 2005/4495
 - • • {with floating-belt attaching ring}
- A61F 5/451
 - • Genital {or anal} receptacles ([A61F 5/441](#), [A61F 5/442](#), [A61F 5/443](#) take precedence; {other body securing means [A61F 5/4408](#); devices for taking faeces samples [A61B 10/0038](#); devices for taking urine samples [A61B 10/007](#))}
- A61F 5/453
 - • • for collecting urine or other discharge from male member ([A61F 6/04](#) takes precedence; {devices for taking sperm samples [A61B 10/0058](#))}
- A61F 5/455
 - • • for collecting urine or discharge from female member
- A61F 5/4553
 - • • • {placed in the vagina, e.g. for catamenial use (pessaries [A61F 6/08](#); absorbent cups [A61F 13/2045](#))}
- A61F 5/4556
 - • • • {Portable urination aids, e.g. to allow females to urinate from a standing position}
- A61F 5/48
 - Devices for preventing wetting or pollution of the bed
- A61F 5/485
 - • {Absorbent protective pads (mattress underlays [A47C 21/06](#); bed linen [A47G 9/02](#))}
- A61F 5/50
 - Devices for preventing finger-sucking

- A61F 5/56 . Devices for preventing snoring {(by influencing the respiratory system by gas treatment [A61M 16/00](#))}
- A61F 2005/563 . . {Anti-bruxisme}
- A61F 5/566 . . {Intra-oral devices}
- A61F 5/58 . Apparatus for correcting stammering or stuttering
- A61F 6/00** **Contraceptive devices; Pessaries; Applicators therefor** (chemical aspects of contraception [A61K](#))
- A61F 6/005 . {Packages or dispensers for contraceptive devices}
- A61F 6/02 . for use by males ([A61F 6/20](#) takes precedence)
- A61F 6/04 . . Condoms, sheaths or the like, {e.g. combined with devices protecting against contagion}
 - A61F 2006/041 . . . {combined with a protective garment, e.g. underpants or mask}
 - A61F 2006/042 {covering the mouth , e.g. oral condom}
 - A61F 2006/043 . . . {with more than one barrier}
 - A61F 2006/044 . . . {with absorbent material}
 - A61F 2006/045 . . . {with closing devices at the open end}
 - A61F 2006/046 {for closing after use}
 - A61F 2006/047 . . . {with holding means}
 - A61F 2006/048 . . . {with surface protuberances}
 - A61F 2006/049 . . . {with strips to apply the condom}
- A61F 6/06 . for use by females ([A61F 6/20](#) takes precedence)
- A61F 6/065 . . {Condom-like devices worn by females}
- A61F 6/08 . . Pessaries, i.e. devices worn in the vagina to support the uterus, remedy a malposition or prevent conception, {e.g. combined with devices protecting against contagion}
 - A61F 6/12 . . . Inserters or removers
 - A61F 6/14 . . intra-uterine type
 - A61F 6/142 . . . {Wirelike structures, e.g.loops, rings, spirals}
 - A61F 6/144 {with T-configuration}
 - A61F 6/146 . . . {Occluders for the cervical canal (occluding by internal devices [A61B 17/12022](#); dilators [A61M 29/00](#))}
 - A61F 6/148 . . . {with sheet-like structure}
 - A61F 6/16 . . . inflatable
 - A61F 6/18 . . . Inserters or removers; {Apparatus for loading an intra-uterine device into an insertion tube}
 - A61F 6/20 . Vas deferens occluders; Fallopian occluders
 - A61F 6/202 . . {Means specially adapted for ligaturing, compressing or clamping of oviduct or vas deferens (of tubular organs in general [A61B 17/12](#))}
 - A61F 6/204 . . . {Clamp applying devices}
 - A61F 6/206 . . {Clamps (ligaturing clamps or clips [A61B 17/122](#))}
 - A61F 6/208 . . {Implements for ligaturing}
 - A61F 6/22 . . implantable in tubes {(occluding by internal devices [A61B 17/12022](#))}

- A61F 6/225 . . . {transcervical}
- A61F 6/24 . . . characterised by valve means

A61F 7/00

Heating or cooling appliances for medical or therapeutic treatment of the human body (heating or cooling means in connection with bedsteads or mattresses A47C 21/00; {massage, therapeutic baths A61H}; hyperthermia using electric or magnetic fields or ultrasound A61N; electric heating elements H05B)

- A61F 2007/0001 . {Body part}
- A61F 2007/0002 . . {Head or parts thereof}
- A61F 2007/0003 . . . {Face}
- A61F 2007/0004 . . . {Eyes or part of the face surrounding the eyes}
- A61F 2007/0005 . . . {Ears}
- A61F 2007/0006 . . . {Nose}
- A61F 2007/0007 . . . {Forehead, e.g. headbands}
- A61F 2007/0008 . . . {Scalp}
- A61F 2007/0009 . . . {Throat or neck}
- A61F 2007/001 {Throat only}
- A61F 2007/0011 {Neck only}
- A61F 2007/0012 {with means for support of the head}
- A61F 2007/0013 . . . {Jaw}
- A61F 2007/0014 . . . {Chin}
- A61F 2007/0015 . . . {Cheeks}
- A61F 2007/0017 . . . {Mouth}
- A61F 2007/0018 . . {Trunk or parts thereof}
- A61F 2007/0019 . . . {Breast}
- A61F 2007/002 {Heart}
- A61F 2007/0021 . . . {Female breast}
- A61F 2007/0022 . . . {Abdomen}
- A61F 2007/0023 . . . {Waist}
- A61F 2007/0024 . . . {Back}
- A61F 2007/0025 . . . {Higher part of back}
- A61F 2007/0026 . . . {Middle part of back}
- A61F 2007/0027 . . . {Lower part of back}
- A61F 2007/0028 . . . {Rectum}
- A61F 2007/0029 . . {Arm or parts thereof}
- A61F 2007/003 . . . {Shoulder}
- A61F 2007/0031 . . . {Upper arm}
- A61F 2007/0032 . . . {Elbow}
- A61F 2007/0034 . . . {Lower arm}
- A61F 2007/0035 . . . {Wrist}
- A61F 2007/0036 . . . {Hand}

A61F 2007/0037	. . . {Finger}
A61F 2007/0038	. . . {Thumb}
A61F 2007/0039	. . {Leg or parts thereof}
A61F 2007/004	. . . {Hip}
A61F 2007/0041	. . . {Upper leg}
A61F 2007/0042	. . . {Knee}
A61F 2007/0043	. . . {Lower leg, calf}
A61F 2007/0044	. . . {Ankle}
A61F 2007/0045	. . . {Foot}
A61F 2007/0046	. . . {Toe}
A61F 2007/0047	. . . {Sole}
A61F 2007/0048	. . {Genitals}
A61F 2007/005	. . . {female}
A61F 2007/0051	. . {Stumps after amputation}
A61F 2007/0052	. . {for treatment of skin or hair}
A61F 7/0053	. {Cabins, rooms, chairs or units for treatment with a hot or cold circulating fluid}
A61F 2007/0054	. {with a closed fluid circuit, e.g. hot water}
A61F 2007/0055	. . {of gas, e.g. hot air or steam}
A61F 2007/0056	. . {for cooling}
A61F 2007/0057	. . . {of gas, e.g. air or carbon dioxide}
A61F 2007/0058	. . . {evaporating on or near the spot to be cooled}
A61F 2007/0059	. {with an open fluid circuit}
A61F 2007/006	. . {of gas}
A61F 2007/0061	. . . {Using breath}
A61F 2007/0062	. . . {the gas being steam or water vapour}
A61F 2007/0063	. . {for cooling}
A61F 2007/0064	. . . {of gas}
A61F 2007/0065	. . . . {Causing evaporation}
A61F 2007/0067	. . . . . {of sweat}
A61F 2007/0068	. . . {evaporating on the spot to be cooled}
A61F 2007/0069	. . {with return means}
A61F 7/007	. {characterised by electric heating}
A61F 2007/0071	. . {using a resistor, e.g. near the spot to be heated}
A61F 2007/0072	. . . {remote from the spot to be heated}
A61F 2007/0073	. . . {thermistor}
A61F 2007/0074	. . . . {PTC}
A61F 2007/0075	. . {using a Peltier element, e.g. near the spot to be heated or cooled}
A61F 2007/0076	. . . {remote from the spot to be heated or cooled}
A61F 2007/0077	. . {Details of power supply}
A61F 2007/0078	. . . {with a battery}

A61F 2007/0079	. . . . {connectable to car battery}
A61F 2007/008	. . . . {with a separate, portable battery pack}
A61F 2007/0081	. . . {Low voltage, e.g. using transformer}
A61F 2007/0082	. . . . {D.C. (A61F 2007/0078 takes precedence)}
A61F 2007/0084	. . . {using a solar cell}
A61F 7/0085	. {Devices for generating hot or cold treatment fluids}
A61F 2007/0086	. {with a thermostat}
A61F 2007/0087	. {Hand-held applicators}
A61F 2007/0088	. {Radiating heat}
A61F 2007/0089	. {Chemotherapy developing heat}
A61F 2007/009	. {with a varying magnetic field acting upon the human body, e.g. an implant therein}
A61F 2007/0091	. {inflatable}
A61F 2007/0092	. . {with, or also with, a substance other than air}
A61F 2007/0093	. {programmed}
A61F 2007/0094	. {using a remote control}
A61F 2007/0095	. {with a temperature indicator}
A61F 2007/0096	. . {with a thermometer}
A61F 7/0097	. {Blankets with active heating or cooling sources (warming mats A61F 7/08)}
A61F 2007/0098	. {ways of manufacturing heating or cooling devices for therapy}
A61F 7/02	. Compresses or poultices for effecting heating or cooling
A61F 2007/0201	. . {shaped as a doll}
A61F 2007/0203	. . {Cataplasms, poultices or compresses, characterised by their contents; Bags therefor}
A61F 2007/0204	. . . {containing clay, mud, fango, sand, kaolin clay, volcanic or other inorganic granular solids}
A61F 2007/0206	. . . {containing organic solids or fibres}
A61F 2007/0207	. . . . {Plants, dried plants, seeds or fruits}
A61F 2007/0209	. . . . {Synthetics, e.g. plastics}
A61F 2007/0211	. . . . . {Granulars}
A61F 2007/0212	. . . . . {Foams}
A61F 2007/0214	. . . . . {Polymers, e.g. water absorbing}
A61F 2007/0215	. . . {containing liquids other than water}
A61F 2007/0217	. . . . {Oils}
A61F 2007/0219	. . . . {Gels}
A61F 2007/022	. . . {Bags therefor}
A61F 2007/0222	. . . . {made of synthetics, e.g. plastics}
A61F 2007/0223	. . . . {made of textiles}
A61F 2007/0225	. . {connected to the body or a part thereof}
A61F 2007/0226	. . . {adhesive, self-sticking}
A61F 2007/0228	. . . {with belt or strap, e.g. with buckle}

- A61F 2007/023 {with pockets for receiving packs or pouches}
- A61F 2007/0231 . . . {hook and loop-type fastener}
- A61F 2007/0233 . . . {connected to or incorporated in clothing or garments ([A61F 2007/023 takes precedence](#))}
- A61F 2007/0234 {for the upper part of the trunk, eg. bodice}
- A61F 2007/0236 {for the lower part of the trunk, e.g. panty}
- A61F 2007/0238 {in a pocket ([A61F 2007/023 takes precedence](#))}
- A61F 2007/0239 . . . {using vacuum}
- A61F 7/0241 . . {Apparatus for the preparation of hot packs, hot compresses, cooling pads, e.g. heaters or refrigerators}
- A61F 2007/0242 . . {heated by microwaves}
- A61F 2007/0244 . . {with layers}
- A61F 2007/0246 . . . {with a layer having high heat transfer capability}
- A61F 2007/0247 {Using a substance with high conductivity}
- A61F 2007/0249 . . . {with a layer having low heat transfer capability}
- A61F 2007/025 {retaining air or other gas}
- A61F 2007/0252 {in closed compartments}
- A61F 2007/0253 {using a substance with low conductivity ([A61F 2007/025 takes precedence](#))}
- A61F 2007/0255 {with a reflective layer}
- A61F 2007/0257 . . . {with a fluid impermeable layer}
- A61F 2007/0258 . . . {with a fluid permeable layer}
- A61F 2007/026 . . . {with a fluid absorbing layer}
- A61F 2007/0261 . . {medicated}
- A61F 2007/0263 . . . {made of a substance with therapeutic action, e.g. copper or silver}
- A61F 2007/0265 . . . {antiallergic}
- A61F 2007/0266 . . {without external heat source, i.e. using one's own body heat ([A61F 2007/0061 takes precedence](#))}
- A61F 2007/0268 . . {having a plurality of compartments being filled with a heat carrier ([heat packs stored in pockets A61F 2007/023, A61F 2007/0238](#))}
- A61F 2007/0269 . . . {with separable compartments, e.g. reconnectable}
- A61F 2007/0271 {Permanently separable compartments, e.g. with rupturable portions}
- A61F 2007/0273 . . . {with openings in the walls between the compartments serving as passageways for the filler ([flowing in circuits A61F 2007/0054, A61F 2007/0059](#))}
- A61F 2007/0274 {the walls being reduced to spot connections, e.g. spot welds}
- A61F 2007/0276 . . . {with separate compartments connectable by rupturing a wall or membrane}
- A61F 2007/0277 . . {Other details of hot water bottles, heat packs or cold packs}
- A61F 2007/0279 . . . {Removable covers or sleeves ([pockets connected to the body or parts thereof A61F 2007/023, A61F 2007/0238](#))}
- A61F 2007/028 . . . {Devices for wringing}

- A61F 2007/0282 . . {for particular medical treatments or effects}
- A61F 2007/0284 . . . {Treatment of stings or bites}
- A61F 2007/0285 . . . {Local anaesthetic effect}
- A61F 2007/0287 . . . {Preventing negative effects of chemotherapy}
- A61F 2007/0288 . . . {during operations}
- A61F 2007/029 . . . {Fat cell removal or destruction by non-ablative heat treatment}
- A61F 2007/0292 . . {using latent heat produced or absorbed during phase change of materials, e.g. of super-cooled solutions}
- A61F 2007/0293 . . . {Triggers, activators or catalysts therefor}
- A61F 2007/0295 . . {for heating or cooling or use at more than one temperature}
- A61F 2007/0296 . . . {Intervals of heating alternated with intervals of cooling}
- A61F 2007/0298 . . . {with a section for heating and a section for cooling}
- A61F 7/03 . . Thermophore, i.e. self-heating, {e.g. using a chemical reaction}
- A61F 7/032 . . . {using oxygen from the air, e.g. pocket-stoves}
- A61F 7/034 {Flameless}
- A61F 2007/036 {Fuels}
- A61F 2007/038 {Carbon or charcoal, e.g. active}
- A61F 7/08 . Warming pads, pans or mats ([A61F 7/02](#) takes precedence); Hot-water bottles

WARNING

Not complete, see also [A61F 7/02](#)

- A61F 2007/083 . . {with an outlets tube, e.g. for enema or irrigation}
- A61F 7/086 . . {Closures; Filling openings}
- A61F 7/10 . Cooling bags, e.g. ice-bags
- A61F 2007/101 . . {for cooling organs in the body before or during surgery}
- A61F 7/103 . . {refillable}
- A61F 2007/105 . . . {Closures specially adapted for icebags or packs}
- A61F 7/106 . . {self-cooling, e.g. using a chemical reaction}
- A61F 2007/108 . . {Cold packs, i.e. devices to be cooled or frozen in refrigerator or freezing compartment}
- A61F 7/12 . Devices for heating or cooling internal body cavities
- A61F 7/123 . . {using a flexible balloon containing the thermal element}
- A61F 2007/126 . . {for invasive application, e.g. for introducing into blood vessels}

Treatment or protection of the eyes or ears; Substitution by other senses

- A61F 9/00** **Method or devices for treatment of the eyes; Devices for putting-in contact lenses; Devices to correct squinting; Apparatus to guide the blind; Protective devices for the eyes, carried on the body or in the hand** (caps with means for protecting the eyes [A42B 1/06](#); visors for helmets [A42B 3/22](#); retractors [A61B 17/02](#); manipulators specially adapted for use in surgery [A61B 19/22](#); appliances to aid invalids to move about [A61H 3/00](#); {exercisers for the eyes [A61H 5/00](#)}; eye baths [A61H 35/02](#); sunglasses or goggles having the same features as spectacles [G02C](#))
- A61F 9/0008 . {Introducing ophthalmic products into the ocular cavity or retaining products therein (putting in contact lenses [A61F 9/0061](#); introducing or retaining media in cavities of the body in general [A61M 31/00](#))}
- A61F 9/0017 . . {implantable in, or in contact with, the eye, e.g. ocular inserts}
- A61F 9/0026 . . {Ophthalmic product dispenser attachments to facilitate positioning near the eye}
- A61F 2009/0035 . {Devices for immobilising a patient's head with respect to the instrument}
- A61F 2009/0043 . . {by supporting the instrument on the patient's head, e.g. head bands}
- A61F 2009/0052 . . . {the instrument being supported on the patient's eye}
- A61F 9/0061 . {Devices for putting-in contact lenses}
- A61F 9/007 . Methods or devices for eye surgery
- A61F 9/00709 . . {Instruments for removing foreign bodies (for removal of intra-ocular material [A61F 9/00736](#))}
- A61F 9/00718 . . {Restoration of lid function}
- A61F 9/00727 . . {Apparatus for retinal reattachment}
- A61F 9/00736 . . {Instruments for removal of intra-ocular material or intra-ocular injection, e.g. cataract instruments ([A61F 9/008](#) takes precedence)}
- A61F 9/00745 . . . {using mechanical vibrations, e.g. ultrasonic}
- A61F 9/00754 . . . {for cutting or perforating the anterior lens capsule, e.g. capsulotomes}
- A61F 9/00763 . . . {with rotating or reciprocating cutting elements, e.g. concentric cutting needles (atherectomy cutting instruments [A61B 17/3207](#); endoscopic cutting instruments [A61B 17/320016](#))}
- A61F 9/00772 . . {Apparatus for restoration of tear ducts}
- A61F 9/00781 . . {Apparatus for modifying intraocular pressure, e.g. for glaucoma treatment (drainage implants in general [A61M 27/002](#))}
- A61F 9/0079 . . {using non-laser electromagnetic radiation, e.g. non-coherent light or microwaves}
- A61F 9/008 . . using laser
- A61F 9/00802 . . . {for photoablation}
- A61F 9/00804 {Refractive treatments}
- A61F 9/00806 {Correction of higher orders}
- A61F 9/00808 {Inducing higher orders, e.g. for correction of presbyopia}
- A61F 9/0081 {Transplantation}
- A61F 9/00812 {Inlays; Onlays; Intraocular lenses [IOL]}

A61F 9/00814	. . . .	{Laser features or special beam parameters therefor}
A61F 9/00817	. . . .	{Beam shaping with masks}
A61F 9/00819	. . . . .	{with photoablatable masks}
A61F 9/00821	. . . .	{for coagulation}
A61F 9/00823	. . . .	{Laser features or special beam parameters therefor}
A61F 9/00825	. . . .	{for photodisruption}
A61F 9/00827	. . . .	{Refractive correction, e.g. lenticle}
A61F 9/00829	. . . . .	{Correction of higher orders}
A61F 9/00831	. . . .	{Transplantation}
A61F 9/00834	. . . .	{Inlays; Onlays; Intraocular lenses [IOL]}
A61F 9/00836	. . . .	{Flap cutting}
A61F 9/00838	. . . .	{Correction of presbyopia}
A61F 9/0084	. . . .	{Laser features or special beam parameters therefor}
A61F 2009/00842	. . . .	{Permanent Structural Change [PSC] in index of refraction; Limit between ablation and plasma ignition}
A61F 2009/00844	. . . .	{Feedback systems}
A61F 2009/00846	. . . .	{Eyetracking}
A61F 2009/00848	. . . .	{based on wavefront}
A61F 2009/00851	. . . .	{Optical coherence topography [OCT]}
A61F 2009/00853	. . . .	{Laser thermal keratoplasty or radial keratotomy}
A61F 2009/00855	. . . .	{Calibration of the laser system}
A61F 2009/00857	. . . .	{considering biodynamics}
A61F 2009/00859	. . . .	{considering nomograms}
A61F 2009/00861	. . . .	{adapted for treatment at a particular location}
A61F 2009/00863	. . . .	{Retina}
A61F 2009/00865	. . . .	{Sclera}
A61F 2009/00868	. . . .	{Ciliary muscles or trabecular meshwork}
A61F 2009/0087	. . . .	{Lens}
A61F 2009/00872	. . . .	{Cornea}
A61F 2009/00874	. . . .	{Vitreous}
A61F 2009/00876	. . . .	{Iris}
A61F 2009/00878	. . . .	{Planning}
A61F 2009/0088	. . . .	{based on wavefront}
A61F 2009/00882	. . . .	{based on topography}
A61F 2009/00885	. . . .	{for treating a particular disease}
A61F 2009/00887	. . . .	{Cataract}
A61F 2009/00889	. . . . .	{Capsulotomy}
A61F 2009/00891	. . . .	{Glaucoma}
A61F 2009/00893	. . . .	{Keratoconus}
A61F 2009/00895	. . . .	{Presbyopia}

- A61F 2009/00897 . . . {Scanning mechanisms or algorithms}
- A61F 9/009 . . . Auxiliary devices making contact with the eye-ball and coupling in laser light, {e.g. gonio-lenses (apparatus for eye examination [A61B 3/0008](#))}
- A61F 9/013 . . {Instruments} for compensation of ocular refraction ([A61F 9/008](#) takes precedence); {Instruments for use in cornea removal, for reshaping or performing incisions in the cornea}
- A61F 9/0133 . . . {Knives or scalpels specially adapted therefor}
- A61F 9/0136 . . . {Mechanical markers}
- A61F 9/02 . Goggles {(breathing masks [A62B 18/00](#); swimming goggles [A63B 33/002](#); diving masks [B63C 11/12](#))}
- A61F 2009/021 . . {Goggles with prescription spectacle lenses}
- A61F 9/022 . . {Use of special optical filters, e.g. multiple layers, filters for protection against laser light or light from nuclear explosions, screens with different filter properties on different parts of the screen; Rotating slit-discs (optical filters per se [G02B 5/20](#))}
- A61F 9/023 . . . {with variable transmission, e.g. photochromic (for welding [A61F 9/067](#))}
- A61F 9/024 . . . {Rotating discs with slits, e.g. stroboscopes}
- A61F 9/025 . . {Special attachment of screens, e.g. hinged, removable; Roll-up protective layers}
- A61F 9/026 . . {Paddings; Cushions; Fittings to the face}
- A61F 9/027 . . {Straps; Buckles; Attachment of headbands}
- A61F 9/028 . . {Ventilation means}
- A61F 9/029 . . {Additional functions or features, e.g. protection for other parts of the face such as ears, nose or mouth; Screen wipers or cleaning devices}
- A61F 9/04 . Eye-masks; {Devices to be worn on the face, not intended for looking through; Eye-pads for sunbathing (eye-bandages [A61F 13/12](#); protective face-masks [A41D 13/11](#); protectors for shampooing [A45D](#))}
- A61F 9/045 . . {Eye-shades or visors; Shields beside, between or below the eyes (caps with means for protecting the eyes [A42B 1/06](#))}
- A61F 9/06 . . Masks, shields or hoods for welders (safety devices for welding in general [F16P 1/00](#))
- A61F 9/061 . . . {with movable shutters, e.g. filter discs; Actuating means therefor}
- A61F 9/062 {with movable polarising filter discs}
- A61F 9/064 . . . {with two windows, one for viewing and one for use during the welding process}
- A61F 9/065 . . . {use of particular optical filters ([A61F 9/022](#), [A61F 9/062](#) take precedence)}
- A61F 9/067 {with variable transmission}
- A61F 9/068 . . . {with supply or suction of gas, air or smoke inside or outside the welding hood}
- A61F 9/08 . Devices or methods enabling eye-patients to replace direct visual perception by another kind of perception {(walking or guiding aids for blinds [A61H 3/06](#); teaching or communicating with blinds [G09B 21/00](#) promoting of eye function by stimulation with electric currents using contact electrodes [A61N 1/36046](#))}

A61F 11/00 **Methods or devices for treatment of the ears, e.g. surgical; Protective devices for the ears, carried on the body or in the hand; {Non-electric hearing aids}**

- A61F 11/002 . {Surgical middle ear ventilation or drainage, e.g. permanent; Implants therefor (drainage implants in general [A61M 27/002](#))}
- A61F 11/004 . {Ear surgery ([A61F 11/002](#) takes precedence)}
- A61F 11/006 . {Ear cleaners, e.g. curettes (cotton tips [A61F 13/38](#); cleaning by suction [A61M 1/0023](#), by irrigation [A61M 3/02](#))}
- A61F 11/008 . {Non-electric hearing aids, e.g. ear trumpets, sound amplifiers, ear-shells (non-electric sound-amplifying devices in general [G10K 11/08](#); sound-focusing or directing using reflection in general [G10K 11/28](#))}
- A61F 11/04 . Devices or methods enabling ear patients to replace direct auditory perception by another kind of perception {(electronic stimulation of auditory nerves [A61N 1/36032](#))}
- A61F 11/045 . . {using mechanical stimulation of nerves (acting directly on the ear [H04R 25/00](#))}
- A61F 11/06 . Protective devices for the ears
- A61F 11/08 . . internal, e.g. earplugs
- A61F 2011/085 . . . {including an inner channel}
- A61F 11/10 . . . inflatable or expandable
- A61F 11/12 . . . External mounting means
- A61F 11/14 . . external, e.g. earcaps or earmuffs (headwear, e.g. caps or helmets, with means for protecting the ears [A42B 1/06](#), [A42B 3/16](#), {for hairdresser's rooms [A45D 44/12](#); for sports [A63B 71/10](#); headphones [H04R 1/10](#))}

NOTE

Group [A61F 11/14](#) contains only acoustic protection (other external protectors, see [A61F 11/06](#))]

- A61F 2011/145 . . . {electric, e.g. for active noise reduction}

Bandages, dressings or absorbent pads; First-aid kits

A61F 13/00 **Bandages or dressings** (suspensory bandages [A61F 5/40](#); {contact-avoiding wound protectors [A61F 15/008](#); bandages or dressings with incorporated medicaments [A61L 15/44](#), [A61M 35/006](#); radioactive dressings [A61N 5/1029](#)}); **Absorbent pads** (chemical aspects of, or use of materials for, bandages, dressings or absorbent pads [A61L 15/00](#); {absorbent pads for tracheostomy [A61M 16/047](#)})

- A61F 13/00004 . {Non-adhesive dressings}
- A61F 13/00008 . . {characterized by the material}
- A61F 13/00012 . . . {being made of natural material e.g. cellulose-, protein-, collagen-based}
- A61F 13/00017 . . . {synthetic e.g. polymer based}
- A61F 13/00021 . . {characterized by the structure of the dressing}
- A61F 13/00025 . . . {made of a single layer}
- A61F 13/00029 . . . {made of multiple layers}

- A61F 13/00034 . . {characterized by a property}
- A61F 13/00038 . . . {Flexibility, stretchability or elasticity}
- A61F 13/00042 . . . {Absorbency}
- A61F 13/00046 . . . {Air-vapor permeability}
- A61F 13/00051 . {Accessories for dressings}
- A61F 13/00055 . . {Saturation indicators}
- A61F 13/00059 . . {provided with visual effects e.g. printed or colored}
- A61F 13/00063 . . {comprising medicaments or additives e.g. odor control, PH control, debriding, antimicrobial (drug delivery dressings [A61K 9/70](#); chemical aspect of the additives [A61L 15/00](#))}
- A61F 13/00068 . . {specially adapted for application or removal of fluid e.g. irrigation or drainage of wounds, under-pressure wound-therapy ([A61F 13/0216](#) takes precedence; Drainage appliances for wounds in general [A61M 27/00](#))}
- A61F 13/00072 . . {Packaging of dressings}
- A61F 13/00076 . . . {Packaging of adhesive dressings}
- A61F 13/0008 {having means for facilitating the removal of the packaging and release liner}
- A61F 13/00085 . . {having means for facilitating the application on the skin, e.g. single hand handling facilities ([A61F 13/0259](#) takes precedence; bandage applicators separate from the bandage or the packaging [A61F 15/005](#))}
- A61F 2013/00089 . {Wound bandages ([A61F 2013/00361](#) takes precedence;)}
- A61F 2013/00093 . . {tubular}
- A61F 2013/00097 . . . {net structure}
- A61F 2013/00102 . . {oblong}
- A61F 2013/00106 . . {emergency bandages, e.g. for first aid}
- A61F 2013/0011 . . . {spray}
- A61F 2013/00114 . . . {with check valve, e.g. for traumatic pneumothorax}
- A61F 2013/00119 . . {elastic}
- A61F 2013/00123 . . . {with elastic indicator}
- A61F 2013/00127 . . . {fixation means}
- A61F 2013/00131 . . . {elasticity distribution}
- A61F 2013/00136 {anisotropy}
- A61F 2013/0014 {non-linearity}
- A61F 2013/00144 {transversal distribution}
- A61F 2013/00148 {longitudinal distribution}
- A61F 2013/00153 . . {coloured or with decoration pattern or printing}
- A61F 2013/00157 . . {for burns or skin transplants ([A61F 2013/00187](#) takes precedence; not adhering to the wound [A61F 2013/00217](#))}
- A61F 2013/00161 . . . {with wax, e.g. petroleum or bees- (; treated with lubricants [A61F 2013/00331](#))}
- A61F 2013/00165 . . {not touching the wound}
- A61F 2013/0017 . . {possibility of applying fluid}

A61F 2013/00174	. . .	{possibility of applying pressure}
A61F 2013/00178	. . . .	{hand-held CO ₂ cylinder, e.g. sparklet}
A61F 2013/00182	. .	{with transparent part}
A61F 2013/00187	. .	{insulating; warmth or cold applying}
A61F 2013/00191	. . .	{cooled by evaporation}
A61F 2013/00195	. . .	{electric warmer}
A61F 2013/002	. . .	{with temperature control}
A61F 2013/00204	. . .	{insulating}
A61F 2013/00208	. . . .	{by a high viscosity, low conductivity liquid}
A61F 2013/00212	. . . .	{infra-red absorbing or reflecting}
A61F 2013/00217	. .	{not adhering to the wound (with wax A61F 2013/00161)}
A61F 2013/00221	. . .	{biodegradable, non-irritating}
A61F 2013/00225	. . . .	{with non-degradable reinforcing layer, net or mesh (absorbent core with a reinforcing structure, e.g. net A61F 2013/53463)}
A61F 2013/00229	. . .	{with alginate (absorbent structures with superabsorbent materials, e.g. SAM K61F13/15D7)}
A61F 2013/00234	. . .	{metallic layer (metallic underlayers K61F13/15E2)}
A61F 2013/00238	. .	{characterised by way of knitting or weaving}
A61F 2013/00242	. . .	{to avoiding fraying or pilling (lint-free, i.e. non-linting or frying A61F 2013/00348)}
A61F 2013/00246	. .	{in a special way pervious to air or vapours (air permeability of absorbent structures K61F13/15D10T ; underlayers impervious to fluids but not for air or vapours K61F13/15E1A ; fibrous underlayers impervious to fluids end open for air K61F13/15E3A)}
A61F 2013/00251	. . .	{with macroscopic openings}
A61F 2013/00255	. . .	{with pores}
A61F 2013/00259	. . .	{thin film}
A61F 2013/00263	. . .	{vapour permeability >500 g/m ² /24h}
A61F 2013/00268	. . .	{impervious, i.e. occlusive bandage}
A61F 2013/00272	. .	{protection of the body or articulation (safety barrier for protection of the operator A61F 2013/00297 ; protecting the body against ulcers A61F 2013/15024 ; protection in contaminated, e.g. NBC or industrial toxic ambience A61F 2013/15065)}
A61F 2013/00276	. . .	{for itching skin}
A61F 2013/0028	. .	{applying of mechanical pressure; passive massage}
A61F 2013/00285	. .	{medication confinement}
A61F 2013/00289	. .	{easy removing of the protection sheet}
A61F 2013/00293	. .	{anallergic or hypoallergic material}
A61F 2013/00297	. .	{safety barrier for protection of the operator (protection of the body or articulation A61F 2013/00272 ; protecting the body against ulcers A61F 2013/15024 ; protection in contaminated, e.g. NBC or industrial toxic ambience A61F 2013/15065 ; prophylaxis A61F 2013/15081)}
A61F 2013/00302	. . .	{devices for handling dressings}

A61F 2013/00306	. . .	{dressing for protection of the operator during surgical procedure}
A61F 2013/0031	. . .	{for handling common life objects, e.g. telephone (prophylaxis A61F 2013/15081)}
A61F 2013/00314	. .	{with surface treatments}
A61F 2013/00319	. . .	{to make surface hydrophobic}
A61F 2013/00323	. . .	{to make surface hydrophilic}
A61F 2013/00327	. . .	{to create projections or depressions in surface}
A61F 2013/00331	. . .	{lubricants (with wax, e.g. petroleum or bees- A61F 2013/00161 ; not adhering to the wound A61F 2013/00217 ; lubricant top layers A61F 2013/51073)}
A61F 2013/00336	. . .	{polymeric resins}
A61F 2013/0034	. .	{with triboelectric materials}
A61F 2013/00344	. . .	{for increasing oxygen partial pressure}
A61F 2013/00348	. .	{lint-free, i.e. non-linting or frying (A61F 2013/00242 takes precedence)}
A61F 2013/00353	. .	{for red nails, in-grown nails or felons (inflamed digits)}
A61F 2013/00357	. .	{implanted wound fillings or covers (membranes for covering bone defects A61F 2/2846)}
A61F 2013/00361	. .	{Plasters}
A61F 2013/00365	. .	{use}
A61F 2013/0037	. . .	{for cosmesis}
A61F 2013/00374	. . . .	{against wrinkles, e.g. face lift}
A61F 2013/00378	. . . .	{coloured as the skin (coloured black or yellow, or with pattern or printing A61F 2013/00153)}
A61F 2013/00382	. . . .	{reconstructing the body shape (prosthetic device A61F 2013/00574)}
A61F 2013/00387	. . .	{skin protection (protection of the body or articulation A61F 2013/00272 ; safety barrier for protection of the operator A61F 2013/00297 ; for protection of suture stitches A61F 2013/00455 ; protection of wound surround A61F 2013/00825)}
A61F 2013/00391	. . . .	{from irradiation, e.g. sun}
A61F 2013/00395	. . . .	{from skin abrasion}
A61F 2013/004	. . . .	{from liquid water}
A61F 2013/00404	. . . .	{against blisters or bed sores}
A61F 2013/00408	. . . .	{shield for protection against hypodermic needles}
A61F 2013/00412	. . .	{for use with needles, tubes or catheters}
A61F 2013/00417	. . . .	{pierced by needle}
A61F 2013/00421	. . . .	{with double adhesive layer (with cyano-acrylic adhesive A61F 2013/00459 ; with adhesive connecting means A61F 2013/00561 ; adhesives for plasters A61F 2013/00655 ; with absorbent adhesives A61F 2013/00757 ; with permeable adhesive layers A61F 2013/00761 ; different adhesion of different adhesive layers A61F 2013/00804 ; changing the adhesion force with strain value A61F 2013/00838)}
A61F 2013/00425	. . .	{for removing of external skin layer, e.g. prepping}
A61F 2013/00429	. . .	{for conducting tests}

A61F 2013/00434	. . . .	{Epicutaneous test}
A61F 2013/00438	. . . .	{blood tests}
A61F 2013/00442	. . . .	{using electrodes}
A61F 2013/00446	. . . .	{for oriental medicine}
A61F 2013/00451	. . . .	{for surgical sutures, e.g. butterfly type}
A61F 2013/00455	. . . .	{for protection of suture stitches (protection of the body or articulation A61F 2013/00272 ; safety barrier for protection of the operator A61F 2013/00297 ; skin protection A61F 2013/00387 ; protection of wound surround A61F 2013/00825)}
A61F 2013/00459	. . . .	{with cyano-acrylic adhesive (adhesives for mucosae A61F 2013/00714 or for use on wounds A61F 2013/00719)}
A61F 2013/00463	. . . .	{haemostatic}
A61F 2013/00468	. . . .	{applying local pressure}
A61F 2013/00472	. . . .	{with chemical means}
A61F 2013/00476	. . . .	{for nose}
A61F 2013/0048	. . . .	{for toes (for red nails, in-grown nails or felons A61F 2013/00353)}
A61F 2013/00485	. . . .	{treating of athlete's foot}
A61F 2013/00489	. . . .	{for bracing or strapping}
A61F 2013/00493	. . . .	{torso}
A61F 2013/00497	. . . .	{eye patch}
A61F 2013/00502	. . . .	{for eyelids}
A61F 2013/00506	. . . .	{for treating warts}
A61F 2013/0051	. . . .	{for treating insect bite}
A61F 2013/00514	. . . .	{ticks}
A61F 2013/00519	. . . .	{for treating burn (bandages for burns or skin transplants A61F 2013/00157)}
A61F 2013/00523	. . . .	{with hydrogel (wound bandages with alginate A61F 2013/00229 ; adhesive for plasters; with hydrogel A61F 2013/00676 ; water-based A61F 2013/00689 ; for use on mucosae A61F 2013/00714 ; for use on wounds A61F 2013/00719 ; wound humidity control with hydrocolloids or superabsorbers A61F 2013/00748 ; with absorbent adhesives A61F 2013/00757 ; with fumed silica A61F 2013/00787 ; with viscoelastic oil-elastomer gel A61F 2013/00893)}
A61F 2013/00527	. . . .	{artificial skin}
A61F 2013/00531	. . . .	{for exfoliation (enzymes therefor A61F 2013/00927)}
A61F 2013/00536	. . . .	{for draining or irrigating wounds}
A61F 2013/0054	. . . .	{for deep wounds}
A61F 2013/00544	. . . .	{form or structure}
A61F 2013/00548	. . . .	{net (wound bandages with net structure A61F 2013/00097)}
A61F 2013/00553	. . . .	{with detachable parts}
A61F 2013/00557	. . . .	{detachable absorbent pad}

A61F 2013/00561	. . . .	{with adhesive connecting means (plasters with a double adhesive layer A61F 2013/00421 ; with cyano-acrylic adhesive A61F 2013/00459 ; adhesives for plasters A61F 2013/00655 ; with absorbent adhesives A61F 2013/00757 ; with permeable adhesive layers A61F 2013/00761 ; different adhesion of different adhesive layers A61F 2013/00804 ; changing the adhesion force with strain value A61F 2013/00838)}
A61F 2013/00565	. . . .	{with hook and loop-type fastener connecting means}
A61F 2013/0057	. . .	{with openable cover}
A61F 2013/00574	. . .	{shaped as a body part (A61F 2013/00187 take precedence; use of plasters A61F 2013/00365 ; containing means for different purposes A61F 2013/00902)}
A61F 2013/00578	. . . .	{conformable; soft or flexible, e.g. elastomeric}
A61F 2013/00582	. . .	{Properties of backing}
A61F 2013/00587	. . . .	{Thickness}
A61F 2013/00591	. . . .	{breaking stress or force}
A61F 2013/00595	. . . .	{breaking strain or extension}
A61F 2013/006	. . . .	{Elastic modulus}
A61F 2013/00604	. . .	{Multilayer}
A61F 2013/00608	. . . .	{with reinforcing layers}
A61F 2013/00612	. . . .	{with different thickness}
A61F 2013/00617	. . . .	{with different hardness}
A61F 2013/00621	. . .	{cast}
A61F 2013/00625	. . . .	{in situ}
A61F 2013/00629	. . . .	{on a model}
A61F 2013/00634	. . . .	{foam}
A61F 2013/00638	. . . .	{Gel}
A61F 2013/00642	. . .	{soluble, e.g. in water}
A61F 2013/00646	. . .	{Medication patches, e.g. transcutaneous}
A61F 2013/00651	. . . .	{tapered, bevelled or chamfered}
A61F 2013/00655	. .	{adhesive (wound bandages with alginate A61F 2013/00229 ; plasters with a double adhesive layer A61F 2013/00421 ; with cyano-acrylic adhesive A61F 2013/00459 ; plasters for treating burn with hydrogel A61F 2013/00523 ; with adhesive connecting means A61F 2013/00561 ; adhesive for plasters, with hydrogel A61F 2013/00676 ; for use on mucosae A61F 2013/00714 ; for use on wounds A61F 2013/00719 ; wound humidity control with hydrocolloids or superabsorbers A61F 2013/00748 ; with absorbent adhesives A61F 2013/00757 ; with fumed silica A61F 2013/00787 ; with viscoelastic oil-elastomer gel A61F 2013/00893 ; with permeable adhesive layers A61F 2013/00761 ; different adhesion of different adhesive layers A61F 2013/00804 ; changing the adhesion force with strain value A61F 2013/00838)}
A61F 2013/00659	. . .	{polymeric base}
A61F 2013/00663	. . . .	{acrylic}
A61F 2013/00668	. . . .	{Ether}

A61F 2013/00672	. . . .	{cyano-acrylic}
A61F 2013/00676	. . . .	{hydrogel}
A61F 2013/0068	. . . .	{cross-linked by radiations, e.g. electron beam}
A61F 2013/00685	. . . .	{soluble in liquid, e.g. of particular pH}
A61F 2013/00689	. . . .	{water-based}
A61F 2013/00693	. . . .	{oil-based}
A61F 2013/00697	. . . .	{elastomer-, e.g. rubber- based}
A61F 2013/00702	. . . .	{silicon-based}
A61F 2013/00706	. . . .	{basis weight}
A61F 2013/0071	. . . .	{containing active agent}
A61F 2013/00714	. . . .	{adhesives for mucosae}
A61F 2013/00719	. . . .	{adhesives for use on wounds}
A61F 2013/00723	. . . .	{non-adhesive skin fixation}
A61F 2013/00727	. .	{means for wound humidity control}
A61F 2013/00731	. . . .	{with absorbing pads}
A61F 2013/00736	. . . .	{containing zeolites}
A61F 2013/0074	. . . .	{containing foams}
A61F 2013/00744	. . . .	{containing non-woven}
A61F 2013/00748	. . . .	{with hydrocolloids or superabsorbers (wound bandages with alginate A61F 2013/00229 ; plasters with cyano-acrylic adhesive A61F 2013/00459 ; plasters for treating burn with hydrogel A61F 2013/00523 ; adhesive for plasters, with hydrogel A61F 2013/00676 ; water-based A61F 2013/00689 ; for use on mucosae A61F 2013/00714 ; for use on wounds A61F 2013/00719 ; with absorbent adhesives A61F 2013/00757 ; with fumed silica A61F 2013/00787 ; with viscoelastic oil-elastomer gel A61F 2013/00893)}
A61F 2013/00753	. . . .	{superabsorbent fabric of cloth}
A61F 2013/00757	. . . .	{with absorbent adhesives}
A61F 2013/00761	. . . .	{with permeable adhesive layers}
A61F 2013/00765	. . . .	{continuous layer}
A61F 2013/0077	. . . .	{arranged in lines}
A61F 2013/00774	. . . .	{arranged in discrete dots}
A61F 2013/00778	. . . .	{porous layers}
A61F 2013/00782	. . . .	{with macroscopic openings}
A61F 2013/00787	. . . .	{fumed silica}
A61F 2013/00791	. . . .	{device for evaporation of essudates}
A61F 2013/00795	. .	{special helping devices}
A61F 2013/008	. . . .	{easy removing of the protection sheet}

A61F 2013/00804	. . . .	{different adhesion of different adhesive layers (plasters with a double adhesive layer A61F 2013/00421 ; with cyano-acrylic adhesive A61F 2013/00459 ; with adhesive connecting means A61F 2013/00561 ; adhesives for plasters A61F 2013/00655 ; with absorbent adhesives A61F 2013/00757 ; with permeable adhesive layers A61F 2013/00761 ; changing the adhesion force with strain value A61F 2013/00838)}
A61F 2013/00808	. . . .	{force step in removing the protection layer}
A61F 2013/00812	. . . .	{perforate or breakable zones}
A61F 2013/00817	. . . .	{handles or handling tabs}
A61F 2013/00821	. . . .	{with hinge means}
A61F 2013/00825	. . . .	{protection of wound surround (protecting the body against ulcers A61F 2013/15024 ; protection in contaminated, e.g. NBC or industrial toxic ambience A61F 2013/15065 ; prophylaxis A61F 2013/15081 ; protection of the body or articulation A61F 2013/00272 ; safety barrier for protection of the operator A61F 2013/00297 ; skin protection A61F 2013/00387 ; for protection of suture stitches A61F 2013/00455)}
A61F 2013/00829	. . . .	{rigid or semi-rigid backing}
A61F 2013/00834	. . . .	{as a frame}
A61F 2013/00838	. . . .	{changing the adhesion force with strain value (plasters with a double adhesive layer A61F 2013/00421 ; with cyano-acrylic adhesive A61F 2013/00459 ; with adhesive connecting means A61F 2013/00561 ; adhesives for plasters A61F 2013/00655 ; with absorbent adhesives A61F 2013/00757 ; with permeable adhesive layers A61F 2013/00761 ; different adhesion of different adhesive layers A61F 2013/00804)}
A61F 2013/00842	. . . .	{for tearing off dressing of desired size}
A61F 2013/00846	. . . .	{with transparent or translucent part}
A61F 2013/00851	. . . .	{with grid or reference marks}
A61F 2013/00855	. . . .	{pervious to air or vapours (wound bandages in a special way pervious to air or vapour A61F 2013/00246)}
A61F 2013/00859	. . . .	{with macroscopic openings}
A61F 2013/00863	. . . .	{with pores}
A61F 2013/00868	. . . .	{thin film}
A61F 2013/00872	. . . .	{with controlled oxygen permeability}
A61F 2013/00876	. . . .	{vapour permeability >500 g/mg/24h}
A61F 2013/0088	. . . .	{adjustable to a predetermined value}
A61F 2013/00885	. . . .	{impervious, i.e. occlusive bandage}
A61F 2013/00889	. . . .	{waterproof}
A61F 2013/00893	. . . .	{viscoelastic oil-elastomer gel (adhesives based on oil A61F 2013/00693 ; on rubber A61F 2013/00697 ; hydrogel-based adhesives for plasters A61F 2013/00676)}
A61F 2013/00897	. . . .	{package for individual plaster}
A61F 2013/00902	. . . .	{containing means}
A61F 2013/00906	. . . .	{for transcutaneous or transdermal drugs application}
A61F 2013/0091	. . . .	{with disinfecting or anaesthetics means, e.g. anti-mycrobic}

A61F 2013/00914	. . .	{with deodorising or perfuming means}
A61F 2013/00919	. . .	{for physical therapy, e.g. cold or magnetic}
A61F 2013/00923	. . . .	{triboelectricity (wound bandages with triboelectric materials A61F 2013/0034)}
A61F 2013/00927	. . .	{with biological activity, e.g. enzymes for debriding wounds or others, collagen or growth factors}
A61F 2013/00931	. . . .	{chitin}
A61F 2013/00936	. . .	{metal (wound bandages with a metallic layer A61F 2013/00234)}
A61F 2013/0094	. . .	{for sensing physical parameters (plasters for conducting test A61F 2013/00429)}
A61F 2013/00944	. . . .	{humidity; moisture}
A61F 2013/00948	. . . .	{Ph, e.g. acid}
A61F 2013/00953	. . . .	{temperature}
A61F 2013/00957	. . . .	{pressure}
A61F 2013/00961	. . . .	{electrical conductivity}
A61F 2013/00965	. . . .	{microbiological activity}
A61F 2013/0097	. . . .	{oxygen content}
A61F 2013/00974	. . .	{for writing or drawing, e.g. labels}
A61F 2013/00978	. .	{attachments assembly for prosthesis; pouch, e.g. ostomy}
A61F 2013/00982	. .	{anallergic or hypoallergic material}
A61F 13/00987	. .	{Apparatus or processes for manufacturing non-adhesive dressings or bandages}
A61F 13/00991	. .	{for treating webs, e.g. for moisturising, coating, impregnating or applying powder}
A61F 13/00995	. . .	{for mechanical treatments}
A61F 13/02	. .	Adhesive plasters or dressings (A61F 13/06 to A61F 13/15 take precedence; {for diagnosis, e.g. allergy test patches, A61B 10/0035 ; surgical adhesives or cements A61L 24/00 ; {for transdermal drug administration A61M 35/00)}
A61F 13/0203	. .	{having a fluid handling member}
A61F 13/0206	. . .	{the fluid handling member being absorbent fibrous layer , e.g. woven or nonwoven absorbent pad, island dressings}
A61F 13/0209	. . . .	{comprising superabsorbent material}
A61F 13/0213	. . .	{the fluid handling member being a layer of hydrocolloid, gel forming material}
A61F 13/0216	. . .	{the fluid handling member being non absorbent, e.g. for use with sub- or over-pressure therapy, wound drainage or wound irrigation systems}
A61F 13/022	. . .	{having more than one layer with different fluid handling characteristics}
A61F 13/0223	. . .	{characterized by parametric properties of the fluid handling layer e.g. absorbency, wicking capacity, liquid distribution}
A61F 13/0226	. . .	{characterised by the support layer}
A61F 13/023	. .	{wound covering film layers without a fluid handling layer}
A61F 13/0233	. . .	{characterised by the occlusive layer skin contacting layer}
A61F 13/0236	. . .	{characterised by the application/handling support layer}

- A61F 13/024 {the application or handling support layer being removable}
- A61F 13/0243 . . . {characterised by the properties of the skin contacting layer, e.g. air-vapor permeability}
- A61F 13/0246 . . {characterised by the skin adhering layer}
- A61F 13/025 . . . {having a special distribution arrangement of the adhesive}
- A61F 13/0253 . . . {characterized by the adhesive material}
- A61F 13/0256 . . . {characterized by the parametric properties of the adhesive}
- A61F 13/0259 . . {characterised by the release liner covering the skin adhering layer}
- A61F 13/0263 . . . {especially adapted for island dressings}
- A61F 13/0266 . . . {especially adapted for wound covering/occlusive dressings}
- A61F 13/0269 . . {Tapes for dressing attachment (for stoma bags [A61F 5/443](#); for nappies or sanitary towels [A61F 13/58](#); wound closure tapes [A61B 17/085](#); for surgical drapes [A61B 19/08](#); attaching catheters [A61M 25/02](#))}
- A61F 13/0273 . . {Adhesive bandages for winding around limb, trunk or head, e.g. cohesive}
- A61F 13/0276 . . {Apparatus or processes for manufacturing adhesive dressings or bandages}
- A61F 13/0279 . . . {by attaching individual patches on moving webs}
- A61F 13/0283 . . . {for making adhesive or cohesive tape or fabrics therefor, e.g. coating or mechanical treatments}
- A61F 13/0286 . . . {manufacturing of non adhesive dressings}
- A61F 13/0289 . . . {manufacturing of adhesive dressings}
- A61F 13/0293 . . . {manufacturing of plaster of Paris}
- A61F 2013/0296 . . . {for making transdermal patches (chemical processes excluded)}
- A61F 13/04 . . Plaster of Paris bandages; Other stiffening bandages ([A61F 13/06](#) to [A61F 13/15](#) take precedence)
- A61F 13/041 . . {Accessories for stiffening bandages, e.g. cast liners, heel-pieces}
- A61F 13/043 . . . {Shoe-like cast covers; Cast socks ([A61F 15/004](#) takes precedence; shoe-like orthopaedic devices for protecting the feet against injuries after operations [A61F 5/0195](#); walking soles [A61F 13/045](#))}
- A61F 13/045 . . . {Walking soles or heels}
- A61F 13/046 . . . {Incorporated ventilation or cooling devices}
- A61F 13/048 . . . {Braces for connecting two cast parts, e.g. hinged cast braces (orthoses [A61F 5/0102](#))}
- A61F 13/06 . . specially adapted for feet or legs; Corn-pads; Corn-rings
- A61F 13/061 . . {for knees (incorporating non-textile reinforcing elements, e.g. springs or stays, [A61F 5/0111](#); Patella supports)}
- A61F 13/062 . . . {Openable readjustable}
- A61F 13/063 . . {Corn-pads; Corn-rings}
- A61F 13/064 . . {for feet (incorporating non-textile reinforcing elements, e.g. springs or stays [A61F 5/0111](#); corn-pads, corn-rings [A61F 13/063](#))}
- A61F 13/065 . . . {Looped bandages around the forefoot ([A61F 13/068](#) takes precedence)}
- A61F 13/066 . . . {for the ankle}
- A61F 13/067 . . . {for the sole of the foot (rigid shoe insertions for supporting the sole [A61F 5/14](#))}

- A61F 13/068 . . . {for the toes (toe correcting or spreading devices [A61F 5/019](#))}
- A61F 13/069 . . . {Decubitus ulcer bandages}
- A61F 13/08 . . Elastic stockings; for contracting aneurisms
- A61F 13/085 . . . {Openable readjustable}
- A61F 13/10 . specially adapted for fingers, hands, or arms; Finger-stalls; Nail-protectors
{(restraining devices for arms [A61F 5/37](#); shoulder bandages [A61F 13/14](#))}
- A61F 13/101 . . {for the elbow, e.g. decubitus ulcer bandages ([A61F 13/107](#) takes precedence)}
- A61F 13/102 . . . {Openable readjustable}
- A61F 13/104 . . {for the hands or fingers ([A61F 13/107](#) takes precedence)}
- A61F 13/105 . . . {for the fingers; Finger-stalls; Nail-protectors (devices for correcting deformities of the nails [A61F 5/11](#))}
- A61F 13/107 . . {for wrist support (incorporating non-textile reinforcing elements, e.g. springs or metal braces [A61F 5/0118](#)); Compression devices for tennis elbow (epicondylitis)}
- A61F 13/108 . . . {Openable readjustable}
- A61F 13/12 . specially adapted for the head or neck
- A61F 13/122 . . {specially adapted for the face}
- A61F 13/124 . . . {specially adapted for the eyes}
- A61F 13/126 . . . {specially adapted for the nose}
- A61F 13/128 . . {specially adapted for the neck}
- A61F 13/14 . specially adapted for the breast or abdomen (corsets or bandages for support of breast or abdomen [A61F 5/03](#))
- A61F 13/141 . . {Milk breast pads}
- A61F 13/143 . . {Thorax bandages or bandaging garments}
- A61F 13/145 . . . {specially adapted for the female anatomy}
- A61F 13/146 . . {Shoulder bandages or bandaging garments}
- A61F 13/148 . . {Abdomen bandages or bandaging garments}
- A61F 13/15 . Absorbent pads, e.g. sanitary towels, swabs or tampons for external or internal application to the body (non-absorbent catamenial receptacles [A61F](#)); Supporting or fastening means therefor; Tampon applicators
- A61F 2013/15008 . . {characterized by the use}
- A61F 2013/15016 . . . {for breast; pads for bras}
- A61F 2013/15024 . . . {for protecting the body against ulcers}
- A61F 2013/15032 . . . {as umbilical bandage}
- A61F 2013/1504 {for avoiding contact with umbilical region}
- A61F 2013/15048 . . . {for protection against contamination, or protection in using body disinfecting wipes}
- A61F 2013/15056 {for the protection for furniture, e.g. car seats, chairs, beds}
- A61F 2013/15065 {for protecting in contaminated ambience, e.g. NBC or industrial chemicals}
- A61F 2013/15073 . . . {as drapes}
- A61F 2013/15081 . . . {as prophylaxis}

A61F 2013/15089	. . . .	{as facial prophylaxis}
A61F 2013/15097	. . . .	{as genital prophylaxis}
A61F 2013/15105	. . . .	{as contraceptive, e.g. condom}
A61F 2013/15113	. . . .	{for haemorrhoids}
A61F 2013/15121	. . . .	{for mild incontinence}
A61F 2013/1513	. . . .	{for anal discharge}
A61F 2013/15138	. . . .	{for flatus, i.e. gas}
A61F 2013/15146	. . . .	{for urine collection}
A61F 2013/15154	. . . .	{for hospitalised patients}
A61F 2013/15162	. . . .	{for jaundice phototherapy, i.e. UV light-permeable or transparent materials}
A61F 2013/1517	. . . .	{for puerperae, i.e. after childbirth}
A61F 2013/15178	. . . .	{for prevention and therapy of hip dysplasia or subluxation}
A61F 2013/15186	. . . .	{for animals}
A61F 2013/15195	. . . .	{as swimwear}
A61F 13/15203	. . . .	{Properties of the article, e.g. stiffness or absorbency (chemical aspects A61L 15/00)}
A61F 13/15211	. . . .	{soluble or disintegratable in liquid}
A61F 2013/15219	. . . .	{by mechanical separation of water resistant parts}
A61F 2013/15227	. . . .	{by its solubility in particular Ph solution}
A61F 2013/15235	. . . .	{by its solubility in water}
A61F 2013/15243	. . . .	{printed or coloured, e.g. to match skin}
A61F 13/15252	. . . .	{compostable or biodegradable}
A61F 2013/1526	. . . .	{compostable}
A61F 13/15268	. . . .	{reusable (with separable parts A61F 13/505)}
A61F 2013/15276	. . . .	{washable}
A61F 2013/15284	. . . .	{characterized by quantifiable properties}
A61F 2013/15292	. . . .	{Resistance, i.e. modulus or strength}
A61F 2013/153	. . . . .	{in dry conditions}
A61F 2013/15308	. . . . .	{in wet conditions, i.e. wet strength}
A61F 2013/15317	. . . . .	{Wet compressibility, i.e. void volume/gr}
A61F 2013/15325	. . . . .	{Stress relaxation or compression recovery}
A61F 2013/15333	. . . . .	{to hot, e.g. 90 decC washing procedures}
A61F 2013/15341	. . . . .	{to fire or flame}
A61F 2013/15349	. . . . .	{with controlled smoke emission}
A61F 2013/15357	. . . . .	{Stiffness, e.g. Taber rigidity}
A61F 2013/15365	. . . . .	{Dimensions}
A61F 2013/15373	. . . . .	{Calliper, i.e. thickness}
A61F 2013/15382	. . . . .	{Reduced thickness}
A61F 2013/1539	. . . . .	{being expandable}

A61F 2013/15398	. . . . .	{for giving the illusion of a thick absorbent pad}
A61F 2013/15406	. . . . .	{Basis weight}
A61F 2013/15414	. . . . .	{Bulk thickness}
A61F 2013/15422	. . . . .	{Density}
A61F 2013/1543	. . . . .	{with a density gradient in the horizontal plane}
A61F 2013/15439	. . . . .	{with a density gradient in the vertical plane}
A61F 2013/15447	. . . . .	{Fibre dimension, e.g. denier or tex}
A61F 2013/15455	. . . . .	{Volume-to-fibre surface area ratio}
A61F 2013/15463	. . . . .	{Absorbency}
A61F 2013/15471	. . . . .	{Total capacity}
A61F 2013/15479	. . . . .	{Drip capacity}
A61F 2013/15487	. . . . .	{Capillary properties, e.g. wicking}
A61F 2013/15495	. . . . .	{pore dimension}
A61F 2013/15504	. . . . .	{with a porosity gradient in the vertical or horizontal plane}
A61F 2013/15512	. . . . .	{with specific hydrophilicity}
A61F 2013/1552	. . . . .	{with specific diffusion velocity}
A61F 2013/15528	. . . . .	{with specific capillary or osmotic pressure}
A61F 2013/15536	. . . . .	{with a capillarity gradient in the vertical or horizontal plane}
A61F 2013/15544	. . . . .	{Permeability}
A61F 2013/15552	. . . . .	{Air permeability}
A61F 2013/1556	. . . . .	{Water permeability}
A61F 2013/15569	. . . . .	{Adhesivity}
A61F 13/15577	. .	{Apparatus or processes for manufacturing}
A61F 13/15585	. . .	{of babies' napkins, e.g. diapers (A61F 13/15617 to A61F 13/15804 take precedence)}
A61F 13/15593	. . . . .	{having elastic ribbons fixed thereto; Devices for applying the ribbons}
A61F 13/15601	. . . . .	{the ribbons being applied transversely to the direction of the movement of the webs the diapers are being made of}
A61F 13/15609	. . . . .	{the ribbons being applied in an irregular path}
A61F 13/15617	. . .	{Making absorbent pads from fibres or pulverulent material with or without treatment of the fibres}
A61F 13/15626	. . . . .	{Making fibrous pads without outer layers}
A61F 13/15634	. . . . .	{Making fibrous pads between sheets or webs}
A61F 13/15642	. . . . .	{by depositing continuous layers or pads of fibrous material on single sheets or webs}
A61F 13/1565	. . . . .	{by depositing continuous layers of fibrous material between webs, e.g. wrapping layers of fibrous material}
A61F 13/15658	. . . . .	{Forming continuous, e.g. composite, fibrous webs, e.g. involving the application of pulverulent material on parts thereof}
A61F 13/15666	. . .	{Wrapping formed fibrous webs or pads, e.g. the pads being formed by uniting pad pieces cut from fibrous webs}

A61F 13/15674	. . . .	{by wrapping webs or pads between webs moving in their longitudinal direction}
A61F 13/15682	. . . .	{by folding webs, moving in their longitudinal direction, around webs or pads}
A61F 13/15691	. . . .	{by inserting webs or pads in a tube or a netting, e.g. involving forming of the tube or netting}
A61F 13/15699	. . .	{Forming webs by bringing together several webs, e.g. by laminating or folding several webs, with or without additional treatment of the webs}
A61F 13/15707	. . .	{Mechanical treatment, e.g. notching, twisting, compressing, shaping}
A61F 2013/15715	. . . .	{Shaping or making outer layers}
A61F 13/15723	. . . .	{Partitioning batts; Cutting}
A61F 13/15731	. . . .	{Treating webs, e.g. for giving them a fibrelike appearance, e.g. by embossing}
A61F 13/15739	. . . .	{Sealing, e.g. involving cutting}
A61F 13/15747	. . . .	{Folding; Pleating; Coiling; Stacking; Packaging}
A61F 13/15756	. . .	{Applying tabs, strips, tapes, loops; Knotting the ends of pads}
A61F 13/15764	. . .	{Transferring, feeding or handling devices; Drives}
A61F 13/15772	. . .	{Control}
A61F 2013/1578	. . . .	{via optical means associated to computer coordinator}
A61F 2013/15788	. . . .	{of the presence of the article or components}
A61F 2013/15796	. . . .	{of the alignment or position of article or components}
A61F 13/15804	. . .	{Plant, e.g. involving several steps}
A61F 2013/15813	. . . .	{with modular lines}
A61F 2013/15821	. . .	{characterized by the apparatus for manufacturing}
A61F 2013/15829	. . . .	{using pressure liquid jet}
A61F 2013/15837	. . . .	{using solvent}
A61F 2013/15845	. . . .	{using a specific cam for programming the apparatus}
A61F 2013/15853	. . . .	{using a specific computer algorithm for programming the apparatus}
A61F 2013/15861	. . . .	{for bonding}
A61F 2013/15869	. . . . .	{with ultrasonic energy}
A61F 2013/15878	. . . . .	{by thermal bonding}
A61F 2013/15886	. . . . .	{by spot bonding}
A61F 2013/15894	. . . . .	{by infra-red radiation}
A61F 2013/15902	. . . . .	{with specific parameters, e.g. temperature, pressure}
A61F 2013/1591	. . . . .	{via adhesive}
A61F 2013/15918	. . . .	{for die cutting}
A61F 2013/15926	. . . .	{for vacuum forming}
A61F 2013/15934	. . . .	{for making non-woven}
A61F 2013/15943	. . . . .	{by air-laid technique}
A61F 2013/15951	. . . . .	{by wet-laid technique}
A61F 2013/15959	. . . . .	{by spunbond technique}

- A61F 2013/15967 {by meltblown technique}
- A61F 2013/15975 {by non-bonded and deformable technique}
- A61F 2013/15983 {by hydroentangled technique}
- A61F 2013/15991 {in making composite multi-layered product}
- A61F 2013/16 . . {Sanitary towels; Means for supporting or fastening them}

WARNING

For group **A61F13/16** and subgroups see warning after [A61F 13/00](#)

- A61F 13/20 . . Tampons, e.g. catamenial tampons; Accessories therefor

WARNING

For group [A61F 13/20](#) and subgroups see warning after [A61F 13/00](#)

- A61F 13/2002 . . . {characterised by the use}
- A61F 13/2005 {specially adapted for the nose cavity}
- A61F 13/2008 {specially adapted for the oral cavity}
- A61F 13/2011 {specially adapted for anal cavity}
- A61F 2013/2014 {for endoscopic procedures}
- A61F 13/2017 {specially adapted for the ear cavity}
- A61F 13/202 {Catamenial tampons ([A61F 13/2022-A61F 13/34](#) take precedence)}
- A61F 13/2022 . . . {characterised by the shape}
- A61F 13/2025 {adapted to change of shape once expelled of the applicator}
- A61F 13/2028 {adapted to change of shape after absorption of liquid}
- A61F 13/2031 {having depressions or elevations, e.g. dots, lines}
- A61F 13/2034 {having grooves or ribs, having a main axis in the longitudinal direction}
- A61F 13/2037 {having grooves or ribs, having a main axis in the radial direction}
- A61F 13/204 {having an external member remaining outside the body cavity e.g. for form fitting or leakage prevention ([withdrawal strings](#) persee [A61F 13/34](#))}
- A61F 13/2042 {having a central tubular opening}
- A61F 13/2045 {Cup-shaped type tampons ([non-absorbent catamenial cups A61F 5/4553](#))}
- A61F 13/2048 {Ball-shaped tampons}
- A61F 13/2051 . . . {characterised by the material or the structure of the inner absorbing core}
- A61F 13/2054 {made by compressing a not-rolled web or pledged}
- A61F 13/2057 {made of foam}
- A61F 13/206 {Tampons made of rolled-up material}
- A61F 13/2062 {Tampons made from folded lengths of material, e.g. of string}
- A61F 13/2065 {Tampons folded from sheets of material ([A61F 13/206](#) takes precedence)}
- A61F 13/2068 {Tampons made from several layers ([A61F 13/2065](#), [A61F 13/206](#) take precedence)}

- A61F 13/2071 . . . {characterised by the material or the structure of the outer layer}
- A61F 13/2074 . . . {impregnated with hydrophobic, hydrophilic, skin enhancers, medicinal etc. substances}
- A61F 13/2077 . . . {having a visual effect e.g. printed or embossed}
- A61F 13/208 . . . {having means for avoiding leakage e.g. liquid impermeable withdrawal end ([A61F 13/204](#) takes precedence)}
- A61F 13/2082 . . . {Apparatus or processes of manufacturing}
- A61F 13/2085 {Catamenial tampons}
- A61F 13/2088 {shaping the tampon by compressing}
- A61F 13/2091 {providing grooves on the tampon}
- A61F 13/2094 {rolling a web material to form a tampon}
- A61F 13/2097 {method of manufacturing tampon applicators}
- A61F 13/26 . . . Means for inserting tampons, {i.e. applicators}
- A61F 13/263 {with reduced length before use, e.g. with folding rod}
- A61F 13/266 {Insertion devices, e.g. rods or plungers, separate from the tampon}
- A61F 13/28 with lubricating means
- A61F 13/34 . . . Means for withdrawing tampons {, e.g. withdrawal strings}
- A61F 13/36 . . Surgical swabs, e.g. for absorbency or packing body cavities during surgery ([A61F 13/38](#) takes precedence)

WARNING

See warning after [A61F 13/00](#)

- A61F 13/38 . . Swabs having a stick-type handle, {e.g. cotton tips (ear cleaners other than cotton tips [A61F 11/006](#); swabs containing a liquid, e.g. in a rupturable reservoir, [A61M 35/006](#))}
- A61F 13/385 . . . {Apparatus or processes of manufacturing}
- A61F 13/42 . . with wetness indicator or alarm

WARNING

See warning after [A61F 13/00](#)

- A61F 2013/421 . . . {the alarm being a temperature change}
- A61F 2013/422 . . . {the alarm being a colour change}
- A61F 2013/423 . . . {the alarm being a volume change or a movement of a component}
- A61F 2013/424 . . . {having an electronic device}
- A61F 2013/425 . . . {being also a toilet training aid}
- A61F 2013/426 . . . {Moisture sensitive polymers}
- A61F 2013/427 . . . {pH indicator}
- A61F 2013/428 . . . {for articles with superabsorbent materials}
- A61F 2013/429 . . . {Thermochromic materials, e.g. ink or dye}
- A61F 13/44 . . with radio-opaque material or signalling means for residual material

WARNING

See warning after [A61F 13/00](#)

A61F 13/45	. .	characterised by the shape (cup-shaped type tampons A61F 13/2045)
A61F 2013/4506	. . .	{special configurations using catheter or tube}
A61F 2013/4512	. . .	{folded in special shape during use (A61F 13/534 , A61F 13/551 , A61F 13/56 , A61F 13/15747 take precedence)}
A61F 2013/4518	. . . .	{formed from two separated panels}
A61F 2013/4525	. . . . .	{by front and rear joined laterally at the crotch}
A61F 2013/4531	. . . . .	{by lateral panels joined at the centreline, i.e. along the longitudinal axis}
A61F 2013/4537	. . . .	{with aeration ducts (with hose-like, tubular sealing barriers A61F 13/49473)}
A61F 2013/4543	. . . .	{with a special transverse section (A61F 13/534 takes precedence)}
A61F 2013/455	. . . . .	{having a "W" shape}
A61F 2013/4556	. . . . .	{having a "M" shape}
A61F 2013/4562	. . . . .	{cup-shaped}
A61F 2013/4568	. . . . .	{three-dimensional; with split absorbent core}
A61F 2013/4575	. . . . .	{connected by elastic means}
A61F 2013/4581	. . . . .	{with absorbent core in separated pieces}
A61F 2013/4587	. . .	{with channels or deep spot depressions on the upper surface (A61F 13/4704 and A61F 13/49001 take precedence)}
A61F 2013/4593	. . .	{allowing introduction of medical instruments without removing the absorbent article}
A61F 13/47	. . .	Sanitary towels, incontinence pads or napkins (A61F 13/49 takes precedence)
A61F 13/4702	. . . .	{having a reinforcing member}
A61F 13/4704	. . . .	{having preferential bending zones, e.g. fold lines or grooves}
A61F 2013/4706	. . . .	{enlarged in the anal area}
A61F 2013/4708	. . . .	{Panty-liner}
A61F 13/471	. . . .	specially adapted for male use
A61F 13/472	. . . .	specially adapted for female use {(A61F 13/474 , A61F 13/475 , A61F 13/476 take precedence)}
A61F 13/47209	. . . . .	{having only interlabial part, i.e. with no extralabial parts}
A61F 13/47218	. . . . .	{with a raised crotch region, e.g. hump}
A61F 13/47227	. . . . .	{for interlabial use}
A61F 13/47236	. . . . .	{characterised by an unusual contour}
A61F 13/47245	. . . . .	{with asymmetry around the x or y axis}
A61F 13/47254	. . . . .	{with a tanga shape}
A61F 13/47263	. . . . .	{with activating means, e.g. elastic, heat or chemical activatable means}
A61F 13/47272	. . . . .	{with a longitudinal raised end, e.g. cup-shaped gluteal groove (for edge leakage prevention A61F 13/494)}
A61F 2013/47281	. . . . .	{with internal collecting device}
A61F 2013/4729	. . . . .	{combining catamenial pad and tampon}

A61F 13/474	. . . .	adjustable
A61F 13/475	. . . .	characterised by edge leakage prevention means
A61F 13/4751	. . . . .	{the means preventing fluid flow in a transversal direction}
A61F 13/4752	. . . . .	{the means being an upstanding barrier}
A61F 13/4753	. . . . .	{the barrier being not integral with the topsheet or backsheet}
A61F 13/4755	. . . . .	{the means being a flat barrier on or inside the absorbent article, e.g. backsheet wrapped around the edges}
A61F 13/4756	. . . . .	{the means consisting of grooves, e.g. channels, depressions or embossments, resulting in a heterogeneous surface level}
A61F 13/4757	. . . . .	{the means being located outside the perimeter of the absorbent core (A61F 13/4752 takes precedence)}
A61F 13/4758	. . . . .	{the means preventing fluid flow in a longitudinal direction}
A61F 13/476	. . . .	characterised by encircling the crotch region of the undergarment
A61F 13/49	. . .	Absorbent articles specially adapted to be worn around the waist, e.g. diapers
A61F 13/49001	. . . .	{having preferential bending zones, e.g. fold lines or grooves}
A61F 13/49003	. . . .	{Reusable, washable fabric diapers}
A61F 13/49004	. . . . .	{with fastening means}
A61F 13/49006	. . . . .	{the reusable article being in the form of pants or briefs, e.g. slip or panty for light incontinence}
A61F 13/49007	. . . .	{Form-fitting, self-adjusting disposable diapers}
A61F 13/49009	. . . . .	{with elastic means}
A61F 13/49011	. . . . .	{the elastic means is located at the waist region}
A61F 13/49012	. . . . .	{the elastic means being elastic panels}
A61F 13/49014	. . . . .	{the elastic means is located at the side panels}
A61F 13/49015	. . . . .	{the elastic means being elastic panels}
A61F 13/49017	. . . . .	{the elastic means being located at the crotch region}
A61F 13/49019	. . . . .	{the elastic means being placed longitudinally, transversely or diagonally over the article}
A61F 13/4902	. . . . .	{characterised by the elastic material}
A61F 2013/49022	. . . . .	{being elastomeric sheet}
A61F 2013/49023	. . . . .	{being textured, e.g. corrugated}
A61F 2013/49025	. . . . .	{having multiple elastic strands}
A61F 2013/49026	. . . . .	{with variable spacing}
A61F 2013/49028	. . . . .	{with different tensile stress}
A61F 2013/4903	. . . . .	{being a net}
A61F 2013/49031	. . . . .	{being elastic in longitudinal direction}
A61F 2013/49033	. . . . .	{being elastic in transversal direction}
A61F 2013/49034	. . . . .	{being elastic in both the transversal and longitudinal direction}
A61F 2013/49036	. . . . .	{having an inelastic zone by deactivating the elastic property}

A61F 2013/49038	. . . . .	{the elastic means is located all around the absorbent article's perimeter}
A61F 2013/49039	. . . . .	{the elastic means is located around the target zone}
A61F 2013/49041	. . . . .	{having a specific location other than covered by groups A61F 13/49011 - A61F 13/49019 }
A61F 2013/49042	. . . . .	{with only stretchable part , i.e. part being not elastic but only extensible with not a full recovery of its original length}
A61F 2013/49044	. . . . .	{being stretchable non-elastic panels, (A61F 13/4902 takes precedence)}
A61F 2013/49046	. . . . .	{at the crotch}
A61F 2013/49047	. . . . .	{at the ears}
A61F 2013/49049	. . . . .	{on the hips}
A61F 2013/4905	. . . . .	{at the waist}
A61F 2013/49052	. . . . .	{having a specific direction of stretchability}
A61F 2013/49053	. . . . .	{being stretchable in the longitudinal direction or machine direction, i.e. longitudinal}
A61F 2013/49055	. . . . .	{being stretchable in transversal direction or cross machine direction}
A61F 2013/49057	. . . . .	{being stretchable in both longitudinal and transversal direction}
A61F 13/49058	. . . . .	{characterised by the modular concept of constructing the diaper}
A61F 13/4906	. . . . .	{the diaper having an outer chassis forming the diaper and an independent absorbent structure attached to the chassis}
A61F 13/49061	. . . . .	{the diaper having one or two waist members forming the diaper waist region and an independent absorbent structure attached to the one or two waist members forming the crotch region}
A61F 2013/49063	. . . . .	{the diaper having decoupled components}
A61F 2013/49065	. . . . .	{being joined by a transverse line}
A61F 2013/49066	. . . . .	{being joined by an area of low stiffness}
A61F 2013/49068	. . . . .	{characterized by the shape of the outline}
A61F 2013/49069	. . . . .	{being rectangular, i.e. parallelepiped}
A61F 2013/49071	. . . . .	{being triangular}
A61F 2013/49073	. . . . .	{being trapezoidal}
A61F 2013/49074	. . . . .	{hourglass; dog bone-shaped}
A61F 2013/49076	. . . . .	{as "I"-shaped}
A61F 2013/49077	. . . . .	{as "T"-shaped}
A61F 2013/49079	. . . . .	{as backbone-shape}
A61F 2013/4908	. . . . .	{concave}
A61F 2013/49082	. . . . .	{being a complex shape not covered by the other groups A61F 2013/49068 - A61F 2013/4908 }
A61F 2013/49084	. . . . .	{conformable}
A61F 2013/49085	. . . . .	{with a multiplicity of rounded, i.e. spherical elements}
A61F 2013/49087	. . . . .	{having breakable lateral stitches or panels}

A61F 2013/49088	. . . .	{characterized by the leg opening}
A61F 2013/4909	. . . . .	{being asymmetric leg openings}
A61F 2013/49092	. . . . .	{comprising leg cuffs}
A61F 2013/49093	. . . . .	{having multiple barriers}
A61F 2013/49095	. . . . .	{Being formed by lateral sleets}
A61F 2013/49096	. . . . .	{with braces}
A61F 2013/49098	. . . . .	{Other Details not otherwise provided of the absorbent articles specially adapted to be worn around the waist}
A61F 13/491	. . . . .	specially adapted for gender distinct urine discharge pattern
A61F 13/4915	. . . . .	{specially adapted for male use}
A61F 13/493	. . . . .	adjustable {by adding or removing material e.g. umbilical cord arrangements (adjustable by the fastening A61F 13/5638 , A61F 13/5655)}
A61F 13/494	. . . . .	characterised by edge leakage prevention means
A61F 13/49406	. . . . .	{the edge leakage prevention means being at the crotch region}
A61F 13/49413	. . . . .	{the edge leakage prevention means being an upstanding barrier}
A61F 13/4942	. . . . .	{the barrier not being integral with the top- or back-sheet}
A61F 13/49426	. . . . .	{the barrier having an absorbent medium}
A61F 2013/49433	. . . . .	{the barrier having variable heights}
A61F 2013/4944	. . . . .	{having multiple barriers}
A61F 13/49446	. . . . .	{the edge leakage prevention means being an impermeable sheet or impermeable part of a sheet placed on or under the top sheet (A61F 13/49413 takes precedence)}
A61F 13/49453	. . . . .	{the edge leakage prevention sheet being combined with the impermeable backing sheet, e.g. integral with the backing sheet}
A61F 13/4946	. . . . .	{the edge leakage prevention means being an absorbent medium (A61F 13/49426 takes precedence)}
A61F 13/49466	. . . . .	{the edge leakage prevention means being at the waist region}
A61F 13/49473	. . . . .	{the edge leakage prevention means having a continuous closed form, e.g. circle, ellipse, rectangle}
A61F 2013/4948	. . . . .	{the edge leakage prevention means being elastic}
A61F 2013/49486	. . . . .	{the edge leakage prevention means being padded}
A61F 2013/49493	. . . . .	{the edge leakage prevention means being or forming three-dimensional barrier with raised lateral side-or end-wall}
A61F 13/495	. . . . .	with faecal cavity
A61F 2013/4951	. . . . .	{with internal barriers}
A61F 2013/4953	. . . . .	{with rear faecal part separate from front urinary part}
A61F 2013/4955	. . . . .	{with separable, disposable upper body layer}
A61F 2013/4956	. . . . .	{with vertical spacer or separator keeping other components out of contact}
A61F 2013/4958	. . . . .	{with a faecal management layer}

A61F 13/496	. . . .	in the form of pants or briefs
A61F 13/4963	. . . . .	{characterized by the seam}
A61F 2013/4966	. . . . .	{with intentionally damp topsheet}
A61F 13/505	. .	with separable parts, e.g. combination of disposable and reusable parts, (A61F 13/20, {A61F 13/49003} take precedence; supporting or fastening means A61F 13/56; {belts or the like A61F 13/64})
A61F 2013/5055	. . .	{Possibility of doubling or putting in new pieces}
A61F 13/51	. .	characterised by the outer layers {(wicking or transfer layers A61F 13/537)}
A61F 2013/51002	. . .	{with special fibres}
A61F 2013/51004	. . . .	{characterized by the length of the fibres}
A61F 2013/51007	. . . .	{characterized by the orientation of fibres}
A61F 2013/51009	. . . .	{characterized by the shape of the fibres}
A61F 2013/51011	. . . . .	{characterized by the count of the fibres, e.g. denier or tex}
A61F 2013/51014	. . . .	{characterized by the connection between the fibres}
A61F 2013/51016	. . . . .	{followed by a distension heat treatment}
A61F 2013/51019	. . . .	{being cellulosic material}
A61F 2013/51021	. . . . .	{being chemically modified}
A61F 2013/51023	. . . . .	{being polymeric fibres}
A61F 2013/51026	. . . . .	{being in thermoplastic material}
A61F 2013/51028	. . . . .	{being bicomponent}
A61F 2013/5103	. . . . .	{being hydrophobic}
A61F 2013/51033	. . . . .	{being hydrophilic}
A61F 2013/51035	. . . . .	{being biodegradable, e.g. Rayon, polylactate, dioxanone}
A61F 2013/51038	. . . . .	{being a mixture of fibres}
A61F 2013/5104	. . . . .	{with pulp and polymeric fibres}
A61F 2013/51042	. . . . .	{with hydrophobic and hydrophilic fibres}
A61F 2013/51045	. . . . .	{with thermoplastic binder}
A61F 2013/51047	. . . . .	{with antibacterial agents}
A61F 2013/5105	. . . . .	{with mineral or inert material}
A61F 2013/51052	. . . . .	{having different diameters}
A61F 2013/51054	. . . . .	{having different densities}
A61F 2013/51057	. . . . .	{having different ratio of fibres}
A61F 2013/51059	. . .	{being sprayed with chemicals}
A61F 2013/51061	. . . .	{for rendering the surface hydrophobic}
A61F 2013/51064	. . . . .	{in the legs area}
A61F 2013/51066	. . . .	{for rendering the surface hydrophilic}
A61F 2013/51069	. . . . .	{by hydrophilisation with plasma or corona discharge}
A61F 2013/51071	. . . .	{with anti-static agents}
A61F 2013/51073	. . . .	{with lubricants}
A61F 2013/51076	. . . .	{with perfumes or odour-masking agents}

A61F 2013/51078	. . .	{being embossed}
A61F 2013/5108	. . . .	{in grids}
A61F 2013/51083	. . . .	{in point}
A61F 2013/51085	. . . .	{in diamonds}
A61F 2013/51088	. . . .	{in very fine micro-texture}
A61F 2013/5109	. . .	{with odour control}
A61F 2013/51092	. . .	{characterized by the dimensions}
A61F 2013/51095	. . .	{being metallic}
A61F 2013/51097	. . .	{with high friction coefficient for fixation of the bandage}
A61F 13/511	. . .	Topsheet, i.e. the permeable cover or layer facing the skin
A61F 13/51104	. . . .	{the top sheet having a three-dimensional cross-section e.g. corrugations, embossments, recesses or projections}
A61F 13/51108	. . . . .	{the top sheet having corrugations or embossments having one axis relatively longer than the other axis e.g. forming channels or grooves in a longitudinal direction}
A61F 13/51113	. . . .	{comprising an additive e.g. lotion or odour control (A61F 13/51108 takes precedence)}
A61F 2013/51117	. . . . .	{the lotion having skin care properties}
A61F 13/51121	. . . .	{characterised by the material}
A61F 2013/51126	. . . . .	{being nets}
A61F 2013/5113	. . . . .	{being foams}
A61F 2013/51134	. . . . .	{the foam being compressed and expandable, e.g. a cellulosic sponge}
A61F 2013/51139	. . . . .	{being woven or knitted fabrics}
A61F 2013/51143	. . . . .	{being papers}
A61F 2013/51147	. . . . .	{being polymeric films}
A61F 2013/51152	. . . . .	{having specific distance between the fibres}
A61F 2013/51156	. . . . .	{having integrally attached}
A61F 13/5116	. . . .	{being formed of multiple layers (A61F 13/5123 takes precedence)}
A61F 2013/51165	. . . . .	{with the combination of films and nonwovens}
A61F 2013/51169	. . . . .	{the nonwoven being hydroentangled or needlingentangled to the film}
A61F 2013/51173	. . . . .	{with the combination of polymeric films}
A61F 2013/51178	. . . . .	{with the combination of nonwoven webs}
A61F 2013/51182	. . . . .	{with non-continuous bonding}
A61F 2013/51186	. . . . .	{specially shaped topsheets}
A61F 2013/51191	. . . . .	{Self-sealing top layers}
A61F 2013/51195	. . . . .	{not contacting the absorber}
A61F 13/512	. . . .	characterised by its apertures, e.g. perforations
A61F 13/5121	. . . . .	{characterised by the vertical shape of the apertures e.g. three dimensional apertures , e.g. macro-apertures}

A61F 13/5122	. . . . .	{and comprising secondary apertures e.g. macro-apertures in combination with micro-apertures}
A61F 13/5123	. . . . .	{the apertures being formed on a multilayer top sheet}
A61F 13/5125	. . . . .	{the apertures not being formed through the complete thickness of the topsheet e.g. blind holes (blind holes in a single layered topsheet A61F 13/51104)}
A61F 13/5126	. . . . .	{characterised by the planar distribution of the apertures, e.g. in a predefined pattern}
A61F 2013/5127	. . . . .	{characterized by the dimension of apertures}
A61F 2013/5128	. . . . .	{characterized by open targets or acquisitions or vulnerability zones}
A61F 13/513	. . . . .	{characterised by its function or properties, e.g. stretchability, breathability, rewet, visual effect;} having areas of different permeability
A61F 13/51305	. . . . .	{having areas of different permeability}
A61F 13/51311	. . . . .	{the permeability gradient being in the vertical direction}
A61F 2013/51316	. . . . .	{with low friction coefficient}
A61F 2013/51322	. . . . .	{being elastomeric or stretchable}
A61F 2013/51327	. . . . .	{in only one specific direction}
A61F 2013/51333	. . . . .	{in only specific parts or sections of the top layer}
A61F 2013/51338	. . . . .	{having improved touch or feeling, e.g. smooth film}
A61F 2013/51344	. . . . .	{with pile webs or velvet-like tissues}
A61F 2013/5135	. . . . .	{with flame retardant agents or fire extinguishing agents}
A61F 2013/51355	. . . . .	{for improving fluid flow}
A61F 2013/51361	. . . . .	{with pleats or folds}
A61F 2013/51366	. . . . .	{with hydrophilic lower face}
A61F 2013/51372	. . . . .	{with valve or valve-like upper layer; Tapered capillary structures}
A61F 2013/51377	. . . . .	{having decoration properties}
A61F 2013/51383	. . . . .	{being adapted for female properties}
A61F 2013/51388	. . . . .	{being adapted to male properties}
A61F 13/51394	. . . . .	{creating a visual effect, e.g. having a printed or coloured topsheet, printed or coloured sub-layer but being visible from the topsheet, other than embossing for purposes of bonding, wicking, acquisition, leakage-prevention}
A61F 13/514	. . .	backsheet, i.e. the impermeable cover or layer furthest from the skin {(A61F 13/15211 , A61F 13/15252 take precedence)}
A61F 13/51401	. . . . .	{characterised by the material}
A61F 13/51403	. . . . .	{with activating means, e.g. for closing apertures upon contact with water}
A61F 13/51405	. . . . .	{treated or coated, e.g. with moisture repellent agent}
A61F 2013/51407	. . . . .	{being flexible}
A61F 2013/51409	. . . . .	{being a film}
A61F 2013/51411	. . . . .	{being impervious to fluids but not for air or vapours}

A61F 2013/51413	. . . . .	{with macroscopic openings}
A61F 2013/51415	. . . . .	{with pores}
A61F 2013/51417	. . . . .	{with thin films}
A61F 2013/51419	. . . . .	{with stretched areas}
A61F 2013/51421	. . . . .	{only in special places}
A61F 2013/51423	. . . . .	{the vapour permeability being less than 500g/m/24h}
A61F 2013/51425	. . . . .	{being impervious, i.e. occlusive}
A61F 2013/51427	. . . . .	{having valves}
A61F 2013/51429	. . . . .	{being elastomeric or stretchable sheet}
A61F 2013/51431	. . . . .	{in the composition of the elastomer}
A61F 2013/51433	. . . . .	{being biodegradable}
A61F 2013/51435	. . . . .	{having flame retardant agent or fire extinguishing agent}
A61F 2013/51437	. . . . .	{being integral with absorbent core}
A61F 2013/51439	. . . . .	{being foams}
A61F 2013/51441	. . . . .	{being a fibrous material}
A61F 2013/51443	. . . . .	{being impervious to fluids and being air permeable}
A61F 2013/51445	. . . . .	{comprising microfibres, e.g. Gore-Tex}
A61F 2013/51447	. . . . .	{being air permeable}
A61F 2013/51449	. . . . .	{being knitted or woven fabrics}
A61F 2013/5145	. . . . .	{being treated materials}
A61F 2013/51452	. . . . .	{being nonwovens}
A61F 2013/51454	. . . . .	{being papers}
A61F 13/51456	. . . . .	{characterised by its properties}
A61F 13/51458	. . . . .	{being air-pervious or breathable}
A61F 13/5146	. . . . .	{having apertures of perforations}
A61F 13/51462	. . . . .	{being defined by a value or parameter}
A61F 13/51464	. . . . .	{being stretchable or elastomeric}
A61F 13/51466	. . . . .	{providing stretchability without the use of elastic material}
A61F 2013/51468	. . . . .	{being removable}
A61F 2013/5147	. . . . .	{the outer layer being adhesive itself}
A61F 2013/51472	. . . . .	{for reducing noise}
A61F 13/51474	. . . . .	{characterised by its structure}
A61F 13/51476	. . . . .	{being three-dimensional, e.g. embossed, textured, pleated, or with three-dimensional features, like gathers or loops}
A61F 13/51478	. . . . .	{being a laminate, e.g. multi-layered or with several layers}
A61F 13/5148	. . . . .	{having an impervious inner layer and a cloth-like outer layer}
A61F 2013/51482	. . . . .	{being laminated on paper}
A61F 13/51484	. . . . .	{being inhomogeneous in the plane of the sheet, i.e. having zones of different properties or structures}
A61F 2013/51486	. . . . .	{with specially shaped backsheets}

A61F 2013/51488	. . . . .	{for napkins}
A61F 2013/5149	. . . . .	{being embossed}
A61F 2013/51492	. . . . .	{having specially shaped gas or air bubbles or bag-like structure}
A61F 2013/51494	. . . . .	{having underlayer extending around the longitudinal edges of the absorbent core}
A61F 13/51496	. . . . .	{having visual effects}
A61F 13/51498	. . . . .	{Details not otherwise provided for}
A61F 13/515	. . . . .	characterised by the interconnection of the topsheet and the backsheet
A61F 13/52	. . . . .	{Layers coated or treated to decrease absorbency}
A61F 13/53	. . . . .	characterised by the absorbing medium (A61F 13/20 takes precedence)
A61F 2013/530007	. . . . .	{being made from pulp}
A61F 2013/530014	. . . . .	{being made in hard wood pulp}
A61F 2013/530021	. . . . .	{being made in soft wood pulp}
A61F 2013/530029	. . . . .	{being made from cotton}
A61F 2013/530036	. . . . .	{being made in chemically-modified cellulosic material, e.g. Rayon}
A61F 2013/530043	. . . . .	{being made in oxidized cellulose}
A61F 2013/530051	. . . . .	{being made in cross-linked cellulosic fibres}
A61F 2013/530058	. . . . .	{with specific method of producing wood pulp fibres}
A61F 2013/530065	. . . . .	{with chemical pulp}
A61F 2013/530072	. . . . .	{with sulphate pulp, e.g. Kraft}
A61F 2013/53008	. . . . .	{being unbleached}
A61F 2013/530087	. . . . .	{with debonding agents}
A61F 2013/530094	. . . . .	{with mechanical pulp}
A61F 2013/530102	. . . . .	{with thermomechanical pulp}
A61F 2013/530109	. . . . .	{with chemithermomechanical pulp}
A61F 2013/530116	. . . . .	{with recycled material, e.g. paper}
A61F 2013/530124	. . . . .	{with compressed and delaminated material}
A61F 2013/530131	. . . . .	{being made in fibre but being not pulp}
A61F 2013/530138	. . . . .	{characterized by the fibre length}
A61F 2013/530145	. . . . .	{being short}
A61F 2013/530153	. . . . .	{being long}
A61F 2013/53016	. . . . .	{having special shape}
A61F 2013/530167	. . . . .	{being crimped}
A61F 2013/530175	. . . . .	{with capillary channel}
A61F 2013/530182	. . . . .	{characterized by the connection between the fibres}
A61F 2013/530189	. . . . .	{with thermoplastic adhesive}
A61F 2013/530197	. . . . .	{with water-soluble binder}
A61F 2013/530204	. . . . .	{being alcohol-based binder}
A61F 2013/530211	. . . . .	{with water-insoluble binder}

A61F 2013/530218	. . . . .	{followed by heat treatment}
A61F 2013/530226	. . . . .	{with polymeric fibres}
A61F 2013/530233	. . . . .	{being thermoplastic fibres}
A61F 2013/53024	. . . . .	{being bicomponent fibres}
A61F 2013/530248	. . . . .	{being thermosetting fibres}
A61F 2013/530255	. . . . .	{being hydrophobic fibres}
A61F 2013/530262	. . . . .	{only in particular parts or specially arranged}
A61F 2013/53027	. . . . .	{the maximum being at the crotch}
A61F 2013/530277	. . . . .	{the maximum being at front or rear}
A61F 2013/530284	. . . . .	{the maximum being at a certain depth in the thickness}
A61F 2013/530291	. . . . .	{the maximum being along the sides}
A61F 2013/530299	. . . . .	{being hydrophilic fibres}
A61F 2013/530306	. . . . .	{coated with superabsorbent polymer}
A61F 2013/530313	. . . . .	{being biodegradable}
A61F 2013/530321	. . . . .	{in biopolymer, e.g. PHA}
A61F 2013/530328	. . . . .	{being mineral fibres, e.g. glass}
A61F 2013/530335	. . . . .	{being in peat moss}
A61F 2013/530343	. . . . .	{being natural fibres}
A61F 2013/53035	. . . . .	{of cotton}
A61F 2013/530357	. . . . .	{of wool}
A61F 2013/530364	. . . . .	{of bamboo}
A61F 2013/530372	. . . . .	{of ramie or jute or linen}
A61F 2013/530379	. . . . .	{comprising mixtures of fibres}
A61F 2013/530386	. . . . .	{with pulp and polymeric}
A61F 2013/530394	. . . . .	{in coform}
A61F 2013/530401	. . . . .	{with hydrophobic and hydrophilic fibres}
A61F 2013/530408	. . . . .	{with thermoplastic binder}
A61F 2013/530416	. . . . .	{having different count e.g. denier or tex}
A61F 2013/530423	. . . . .	{having different densities}
A61F 2013/53043	. . . . .	{with different ratio of components}
A61F 2013/530437	. . . . .	{having a part with elevated absorption means}
A61F 2013/530445	. . . . .	{by defining a target or acquisition or vulnerability zone}
A61F 2013/530452	. . . . .	{having chemically-stiffened fibres}
A61F 2013/530459	. . . . .	{being curled}
A61F 2013/530467	. . . . .	{being twisted}
A61F 2013/530474	. . . . .	{being cross-linked}
A61F 2013/530481	. . . . .	{having superabsorbent materials, i.e. highly absorbent polymer gel materials}
A61F 2013/530489	. . . . .	{being randomly mixed in with other material}
A61F 2013/530496	. . . . .	{being fixed to fibres}

A61F 2013/530503	. . . . .	{comprising poly-aluminium-chloride}
A61F 2013/53051	. . . . .	{being only in particular parts or specially arranged}
A61F 2013/530518	. . . . .	{the maximum being at the crotch}
A61F 2013/530525	. . . . .	{the maximum being at front or rear}
A61F 2013/530532	. . . . .	{the maximum being at certain depth in the thickness}
A61F 2013/53054	. . . . .	{the maximum being along the side edges}
A61F 2013/530547	. . . . .	{positioned in a separate layer or layers}
A61F 2013/530554	. . . . .	{and being fixed to a web}
A61F 2013/530562	. . . . .	{being arranged in discontinuous pattern}
A61F 2013/530569	. . . . .	{characterized by the particle size}
A61F 2013/530576	. . . . .	{having different size in different parts}
A61F 2013/530583	. . . . .	{characterized by the form}
A61F 2013/530591	. . . . .	{in granules or particles}
A61F 2013/530598	. . . . .	{in aggregates}
A61F 2013/530605	. . . . .	{in sheet}
A61F 2013/530613	. . . . .	{in fibres}
A61F 2013/53062	. . . . .	{being made into a paper or non-woven}
A61F 2013/530627	. . . . .	{in flakes}
A61F 2013/530635	. . . . .	{in thin film}
A61F 2013/530642	. . . . .	{being cross-linked or polymerised in situ}
A61F 2013/530649	. . . . .	{in sponge or foam}
A61F 2013/530656	. . . . .	{being cut into pieces}
A61F 2013/530664	. . . . .	{being a knitted or woven fabric}
A61F 2013/530671	. . . . .	{being mixed with mineral or inert material, e.g. "introfying particles"}
A61F 2013/530678	. . . . .	{with citric acid}
A61F 2013/530686	. . . . .	{with metallic soluble salts, e.g. Na, K, Mg chloride}
A61F 2013/530693	. . . . .	{with polymeric material}
A61F 2013/5307	. . . . .	{characterized by the quantity or ratio of superabsorbent material}
A61F 2013/530708	. . . . .	{characterized by the absorbency properties}
A61F 2013/530715	. . . . .	{by the acquisition rate}
A61F 2013/530722	. . . . .	{by the delayed absorbency}
A61F 2013/530729	. . . . .	{by the swelling rate}
A61F 2013/530737	. . . . .	{by the absorbent capacity}
A61F 2013/530744	. . . . .	{by the absorbency under load}
A61F 2013/530751	. . . . .	{by the centrifugal load}
A61F 2013/530759	. . . . .	{by the osmotic feature}
A61F 2013/530766	. . . . .	{by the cross-link factor}
A61F 2013/530773	. . . . .	{by the inverse temperature transition}
A61F 2013/530781	. . . . .	{by the ionic surfactant, e.g. salt resistant}
A61F 2013/530788	. . . . .	{characterized by the gel layer permeability}

A61F 2013/530795	. . . .	{being biodegradable}
A61F 2013/530802	. . .	{characterized by the foam or sponge other than superabsorbent (A61F 2013/530649 takes precedence)}
A61F 2013/53081	. . . .	{with special pore dimension or arrangement}
A61F 2013/530817	. . . . .	{being open cells}
A61F 2013/530824	. . . . .	{the cells being opened by mechanical or physical treatment}
A61F 2013/530832	. . . . .	{being closed cells}
A61F 2013/530839	. . . .	{being hydrophilic}
A61F 2013/530846	. . . .	{being hydrophobic}
A61F 2013/530854	. . . .	{being collapsed or collapsible foam}
A61F 2013/530861	. . . .	{having slit regions}
A61F 2013/530868	. . .	{characterized by the liquid distribution or transport means other than wicking layer (A61F 13/537 takes precedence)}
A61F 2013/530875	. . . .	{having holes}
A61F 2013/530883	. . . .	{having folds}
A61F 2013/53089	. . . .	{having impervious part}
A61F 2013/530897	. . . .	{having capillary means, e.g. pore or fibre size gradient}
A61F 2013/530905	. . . . .	{being hydrophilic}
A61F 2013/530912	. . . . .	{being hydrophobic}
A61F 2013/530919	. . . . .	{being hydroneutral}
A61F 2013/530927	. . . .	{having longitudinal barriers}
A61F 2013/530934	. . . . .	{having a density gradient}
A61F 2013/530941	. . . . .	{through the thickness}
A61F 2013/530948	. . . . .	{along the length}
A61F 2013/530956	. . . . .	{being only in particular parts or specially arranged}
A61F 2013/530963	. . . . .	{being maximum at the crotch}
A61F 2013/53097	. . . . .	{being at front or rear region}
A61F 2013/530978	. . . . .	{being at a particular depth in the thickness}
A61F 2013/530985	. . . . .	{being along the side edges}
A61F 2013/530992	. . .	{in the form of string or ball instead of sheets}
A61F 13/531	. . .	having a homogeneous composition through the thickness of the pad (A61F 13/538 , A61F 13/539 take precedence)
A61F 2013/5312	. . . .	{with structure resisting compression}
A61F 2013/5315	. . . .	{with a tissue-wrapped core}
A61F 2013/5317	. . . .	{with integral impervious bottom surface}
A61F 13/532	. . . .	inhomogeneous in the plane of the pad
A61F 13/5323	. . . . .	{having absorbent material located in discrete regions, e.g. pockets}
A61F 2013/5326	. . . . .	{being a flanged fibrous pad}
A61F 13/533	. . . . .	having discontinuous areas of compression

A61F 13/534	. . .	having an inhomogeneous composition through the thickness of the pad (A61F 13/538 , A61F 13/539 take precedence; homogeneous cores with tissue wrapping A61F 13/53)
A61F 13/53409	. . . .	{having a folded core}
A61F 13/53418	. . . .	{having a C-folded cross-section}
A61F 13/53427	. . . .	{having an e-folded cross-section}
A61F 13/53436	. . . .	{having an undulated or corrugated cross-section}
A61F 2013/53445	. . . .	{from several sheets}
A61F 2013/53454	. . . .	{with mirror-like structure}
A61F 2013/53463	. . . .	{with a reinforcing structure, e.g. net}
A61F 2013/53472	. . . .	{being a non-woven tissue wrapping the core}
A61F 2013/53481	. . . .	{being biodegradable}
A61F 2013/5349	. . . .	{being a tissue-wrapped core}
A61F 13/535	. . . .	inhomogeneous in the plane of the pad, e.g. core absorbent layers being of different sizes {(A61F 13/5323 , A61F 13/537 take precedence)}
A61F 2013/5355	. . . .	{with terraced core}
A61F 13/536	. . . .	having discontinuous areas of compression
A61F 13/537	. . . .	characterised by a layer facilitating or inhibiting flow in one direction or plane, e.g. a wicking layer {(A61F 13/538 takes precedence)}
A61F 13/53704	. . . .	{the layer having an inhibiting function on liquid propagation}
A61F 13/53708	. . . .	{the layer having a promotional function on liquid propagation in at least one direction}
A61F 13/53713	. . . .	{the layer having a promotional function on liquid propagation in the vertical direction}
A61F 13/53717	. . . .	{the layer having a promotional function on liquid propagation in the horizontal direction}
A61F 2013/53721	. . . .	{with capillary means}
A61F 2013/53726	. . . .	{on the top layer}
A61F 2013/5373	. . . .	{on the bottom layer}
A61F 2013/53734	. . . .	{with compressed lines}
A61F 2013/53739	. . . .	{with compressed points}
A61F 13/53743	. . . .	{characterised by the position of the layer relative to the other layers}
A61F 13/53747	. . . .	{the layer is facing the topsheet (layer is part of the topsheet A61F 13/511)}
A61F 13/53752	. . . .	{the layer is embedded in the absorbent core}
A61F 13/53756	. . . .	{the layer facing the back-sheet}
A61F 13/5376	. . . .	{characterised by the performance of the layer, e.g. acquisition rate, distribution time, transfer time}
A61F 2013/53765	. . . .	{characterized by its geometry}
A61F 2013/53769	. . . .	{with the wicking layer not contacting the absorbent core}
A61F 2013/53773	. . . .	{with a deformable spacing structure}

A61F 2013/53778	. . . . .	{with grooves}
A61F 2013/53782	. . . . .	{with holes}
A61F 2013/53786	. . . . .	{with folds}
A61F 2013/53791	. . . . .	{being resilient or elastic}
A61F 2013/53795	. . . . .	{being a surge management layer}
A61F 13/538	. . .	characterised by specific fibre orientation or weave
A61F 2013/5383	. . . . .	{by the fibre orientation in the x-y plane}
A61F 2013/5386	. . . . .	{by the fibre orientation in the z plane or vertical direction}
A61F 13/539	. . .	characterised by the connection of the absorbent layers with each other or with the outer layers
A61F 2013/53908	. . . . .	{with adhesive}
A61F 2013/53916	. . . . .	{with epicyclical pattern}
A61F 2013/53925	. . . . .	{with intermittent pattern, e.g. spots}
A61F 2013/53933	. . . . .	{with water-soluble binder}
A61F 2013/53941	. . . . .	{being alcohol-based binder}
A61F 2013/5395	. . . . .	{with thermoplastic agent, i.e. softened by heat}
A61F 2013/53958	. . . . .	{with separate adhesive layer}
A61F 2013/53966	. . . . .	{by needling, sewing, blow-needling}
A61F 2013/53975	. . . . .	{by Hydraulic entanglement}
A61F 2013/53983	. . . . .	{with hook and loop-type fastener or the like}
A61F 2013/53991	. . . . .	{by ultrasonic method}
A61F 13/551	. .	Packaging before or after use {(general packaging of absorbent pads B65D 85/00)}
A61F 13/55105	. . .	{packaging of diapers}
A61F 13/5511	. . . . .	{characterized by the container (A61F 15/00 takes precedence)}
A61F 13/55115	. . . . .	{characterized by the features before use e.g. how are the diapers folded or arranged in a package}
A61F 13/5512	. . . . .	{after use}
A61F 2013/55125	. . . . .	{the disposal system being a bag or a pocket integral with or attached to the diaper}
A61F 13/5513	. . .	{packaging of feminine sanitary napkins}
A61F 13/55135	. . . . .	{before use}
A61F 13/5514	. . . . .	{each item packaged single}
A61F 13/55145	. . . . .	{multiple packaged items}
A61F 13/5515	. . . . .	{after use}
A61F 2013/55155	. . . . .	{the disposal system being a bag or pocket integral with or attached to the sanitary napkin}
A61F 13/5516	. . .	{packaging of interlabial absorbing articles}
A61F 13/55165	. . . . .	{before use}
A61F 13/5517	. . . . .	{after use}
A61F 13/55175	. . .	{packaging of tampons}

- A61F 13/5518 {after use}
- A61F 13/55185 {in combination with the applicator}
- A61F 13/5519 . . . {packages containing more than one kind of item e.g. tampon and napkin, or diaper and an exchangeable insert}
- A61F 2013/55195 . . . {Packaging for dispensing and disposing}
- A61F 13/56 . . Supporting or fastening means
- A61F 13/5605 . . . {specially adapted for sanitary napkins or the like}
- A61F 13/5611 {using fastening strips, e.g. adhesive, on the undergarment-facing side}
- A61F 13/5616 {using flaps, e.g. adhesive, for attachment to the undergarment (leakage prevention means encircling the crotch portion [A61F 13/476](#))}
- A61F 13/5622 . . . {specially adapted for diapers or the like}
- A61F 2013/5627 {comprising a zip fastener}
- A61F 13/5633 {open type diaper}
- A61F 13/5638 {adjustable open type diapers (adjustable otherwise than by the fasteners [A61F 13/493](#))}
- A61F 13/5644 {having more than one pair of fasteners}
- A61F 13/565 {pants type diaper}
- A61F 13/5655 {adjustable pants type diapers (adjustable otherwise than by the fasteners [A61F 13/493](#))}
- A61F 2013/5661 . . . {in special holders for beds, chairs or seats}
- A61F 2013/5666 . . . {connected to itself ([A61F 13/58](#) and [A61F 13/62](#) take precedence)}
- A61F 2013/5672 {with buttons or the like ([A61F 13/78](#) takes precedence)}
- A61F 2013/5677 {refastenable}
- A61F 2013/5683 . . . {Disposition or arrangement}
- A61F 2013/5688 {inclined at an oblique angle to the longitudinal axis}
- A61F 2013/5694 . . . {Other non adhesive means than hook and loop-type fastener or belts ([A61F 13/62](#), [A61F 13/64](#) and [A61F 13/66](#) take precedence)}
- A61F 13/58 . . . Adhesive tab fastener elements ([A61F 13/5611](#), [A61F 13/5616](#), [A61F 13/66](#) take precedence)
- A61F 13/581 {Tab fastener elements combining adhesive and mechanical fastening (fabric strip fastener elements [A61F 13/62](#))}
- A61F 2013/582 {with one strip on one place}
- A61F 2013/583 {with strips on several places}
- A61F 2013/585 {being spot like}
- A61F 2013/586 {on lateral flaps}
- A61F 2013/587 {on rear or front tabs}
- A61F 2013/588 {on waist panels}
- A61F 13/60 with release means associated with tab fasteners

WARNINGSee warning after [A61F 13/00](#)

- A61F 13/62 . . . {Mechanical fastening means, ([A61F 13/5611](#), [A61F 13/5616](#), [A61F 13/581](#), [A61F 13/66](#) take precedence);} Fabric strip fastener elements, e.g. hook and loop

WARNING

See warning after [A61F 13/00](#)

- A61F 13/622 {Fabric strip fastener elements, e.g. hook and loop}
- A61F 13/625 {characterised by the hook}
- A61F 13/627 {characterised by the loop}
- A61F 13/64 . . . Straps, belts, ties or endless bands ([A61F 13/5605](#), [A61F 13/5622](#), [A61F 13/66](#) take precedence)
- A61F 13/66 . . . Garments, holders or supports not integral with absorbent pads

WARNING

For group [A61F 13/66](#) and subgroups see warning after [A61F 13/00](#)

- A61F 13/665 {Means specific for supporting or fastening sanitary towels; and sanitary towels}
- A61F 13/68 abdominal enclosing type
- A61F 13/70 with openable or removable crotch portion
- A61F 13/72 with endless waist encircling band, e.g. panty type
- A61F 13/74 having means to retain absorbent pads
- A61F 13/76 transverse to width of the pads or fastener elements, e.g. straps, end flaps or tucks
- A61F 13/78 Button or snap fastener elements
- A61F 13/80 adjustable relative to body crotch area
- A61F 13/82 with means for attaching to the body
- A61F 13/84 . . Accessories, not otherwise provided for, for absorbent pads
- A61F 2013/8402 . . . {including disposal means ([A61F 13/5512](#), [A61F 13/5515](#), [A61F 13/5517](#), [A61F 13/5518](#) take precedence)}
- A61F 13/8405 . . . {Additives, e.g. for odour, disinfectant or pH control}
- A61F 2013/8408 {with odour control}
- A61F 2013/8411 {in controlling solution Ph}
- A61F 2013/8414 {with anti-microbial}
- A61F 2013/8417 {being anti-mycosis}
- A61F 2013/842 {with active charcoal}
- A61F 2013/8423 {with molecular sieves; zeolites}
- A61F 2013/8426 {with metallic salts}
- A61F 2013/8429 {with ion exchange resins}
- A61F 2013/8432 {with glycerine polyol}
- A61F 2013/8435 {with plant derivatives}
- A61F 2013/8438 {being enzymes, e.g. proteolysis, cellulase}
- A61F 2013/8441 {being cultures}

A61F 2013/8444	. . . . . {being microbial, e.g. bulgaricus}
A61F 2013/8447	. . . . . {in using different incompatible substances}
A61F 2013/845	. . . . . {being powder embodied in a polymeric matrix}
A61F 2013/8452	. . . . . {being contained in microcapsules}
A61F 2013/8455	. . . . . {being lubricants}
A61F 2013/8458	. . . . . {having bees-wax}
A61F 2013/8461	. . . . . {having petroleum derivative}
A61F 2013/8464	. . . . . {having plant derivative}
A61F 2013/8467	. . . . . {being antistatic agents}
A61F 2013/847	. . . . . {being infrared absorbing agent}
A61F 2013/8473	. . . {for diagnostic purposes}
A61F 2013/8476	. . . {with various devices or method}
A61F 2013/8479	. . . . . {including electric or magnetic devices}
A61F 2013/8482	. . . . . {including numeric control, e.g. using computer}
A61F 2013/8485	. . . . . {including optical filtering devices}
A61F 2013/8488	. . . {including testing apparatus}
A61F 2013/8491	. . . . . {including test methods}
A61F 2013/8494	. . . {including pumping devices}
A61F 2013/8497	. . . {having decorations or indicia means}

A61F 15/00 **Auxiliary appliances for wound dressings; Dispensing containers for dressings or bandages** {(packaging of absorbent articles such as diapers, feminine hygiene absorbing pads or tampons [A61F 13/551](#); packaging of wound dressings [A61F 13/00072](#))}

A61F 15/001	. {Packages or dispensers for bandages, cotton balls, drapes, dressings, gauze, gowns, sheets, sponges, swabsticks or towels (A61F 15/007 takes precedence)}
A61F 15/002	. . {dispensers for web or tape like bandages}
A61F 15/003	. . {dispensers for catamenial tampons}
A61F 15/004	. {Bandage protectors}
A61F 15/005	. {Bandage applicators}
A61F 15/006	. {Bandage fasteners}
A61F 15/007	. {Bandage winders}
A61F 15/008	. {Appliances for wound protecting, e.g. avoiding contact between wound and bandage (corn plasters A61F 13/063)}
A61F 15/02	. Devices for cutting bandages of any kind, e.g. shears, cast-cutting saws

A61F 17/00 **First-aid kits**

A61F 2210/00 **Particular material properties of prostheses classified in groups [A61F 2/00](#) to [A61F 2/26](#) or [A61F 2/82](#) or [A61F 9/00](#) or [A61F 11/00](#) or subgroups thereof**

A61F 2210/0004	. bioabsorbable
A61F 2210/0009	. using materials or accessories for preventing galvanic or electrolytic corrosion

- A61F 2210/0014 . using shape memory or superelastic materials, e.g. nitinol
- A61F 2210/0019 . . operated at only one temperature whilst inside or touching the human body, e.g. constrained in a non-operative shape during surgery, another temperature only occurring before the operation
- A61F 2210/0023 . . operated at different temperatures whilst inside or touching the human body, heated or cooled by external energy source or cold supply
- A61F 2210/0028 . . . cooled
- A61F 2210/0033 . . . electrically, e.g. heated by resistor
- A61F 2210/0038 electromagnetically
- A61F 2210/0042 . . . using a fluid, e.g. circulating
- A61F 2210/0047 . . . heated by light
- A61F 2210/0052 . . . ultrasonically
- A61F 2210/0057 . stretchable
- A61F 2210/0061 . swellable
- A61F 2210/0066 . shrinkable
- A61F 2210/0071 . thermoplastic
- A61F 2210/0076 . multilayered, e.g. laminated structures
- A61F 2210/008 . Phase change materials [PCM], e.g. for storing latent heat
- A61F 2210/0085 . hardenable in situ, e.g. epoxy resins
- A61F 2210/009 . magnetic
- A61F 2210/0095 . radioactive

Filters; Devices providing patency to tubular structures; Prostheses; Accessories

- A61F 2220/00** **Fixations or connections for prostheses classified in groups [A61F 2/00](#) to [A61F 2/26](#) or [A61F 2/82](#) or [A61F 9/00](#) or [A61F 11/00](#) or subgroups thereof**
- A61F 2220/0008 . Fixation appliances for connecting prostheses to the body
 - A61F 2220/0016 . . with sharp anchoring protrusions, e.g. barbs, pins, spikes
 - A61F 2220/0025 . Connections or couplings between prosthetic parts, e.g. between modular parts; Connecting elements
 - A61F 2220/0033 . . made by longitudinally pushing a protrusion into a complementary-shaped recess, e.g. held by friction fit
 - A61F 2220/0041 . . using additional screws, bolts, dowels or rivets, e.g. connecting screws
 - A61F 2220/005 . . using adhesives
 - A61F 2220/0058 . . soldered or brazed or welded
 - A61F 2220/0066 . . stapled
 - A61F 2220/0075 . . sutured, ligatured or stitched, retained or tied with a rope, string, thread, wire or cable
 - A61F 2220/0083 . . using hook and loop-type fasteners
 - A61F 2220/0091 . . connected by a hinged linkage mechanism, e.g. of the single-bar or multi-bar linkage type

A61F 2230/00

Geometry of prostheses classified in groups [A61F 2/00](#) to [A61F 2/26](#) or [A61F 2/82](#) or [A61F 9/00](#) or [A61F 11/00](#) or subgroups thereof

- A61F 2230/0002 . Two-dimensional shapes, e.g. cross-sections
- A61F 2230/0004 . . Rounded shapes, e.g. with rounded corners
- A61F 2230/0006 . . . circular
- A61F 2230/0008 . . . elliptical or oval
- A61F 2230/001 . . . Figure-8-shaped, e.g. hourglass-shaped
- A61F 2230/0013 . . . Horseshoe-shaped, e.g. crescent-shaped, C-shaped, U-shaped
- A61F 2230/0015 . . . Kidney-shaped, e.g. bean-shaped
- A61F 2230/0017 . . Angular shapes
- A61F 2230/0019 . . . rectangular
- A61F 2230/0021 . . . square
- A61F 2230/0023 . . . triangular
- A61F 2230/0026 . . . trapezoidal
- A61F 2230/0028 . . Shapes in the form of latin or greek characters
- A61F 2230/003 . . . Alpha-shaped
- A61F 2230/0032 . . . B-shaped
- A61F 2230/0034 . . . D-shaped
- A61F 2230/0036 . . . E-shaped, e.g. epsilon-shaped
- A61F 2230/0039 . . . H-shaped
- A61F 2230/0041 . . . J-shaped
- A61F 2230/0043 . . . L-shaped
- A61F 2230/0045 . . . Omega-shaped
- A61F 2230/0047 . . . Pi-shaped
- A61F 2230/005 . . . Rosette-shaped, e.g. star-shaped
- A61F 2230/0052 . . . T-shaped
- A61F 2230/0054 . . . V-shaped
- A61F 2230/0056 . . . W-shaped, e.g. M-shaped, sigma-shaped
- A61F 2230/0058 . . . X-shaped
- A61F 2230/006 . . . Y-shaped
- A61F 2230/0063 . Three-dimensional shapes
- A61F 2230/0065 . . toroidal, e.g. ring-shaped, doughnut-shaped
- A61F 2230/0067 . . conical
- A61F 2230/0069 . . cylindrical
- A61F 2230/0071 . . spherical
- A61F 2230/0073 . . Quadric-shaped
- A61F 2230/0076 . . . ellipsoidal or ovoid
- A61F 2230/0078 . . . hyperboloidal
- A61F 2230/008 . . . paraboloidal
- A61F 2230/0082 . . parallelepipedal

- A61F 2230/0084 . . . cubical
- A61F 2230/0086 . . . Pyramidal, tetrahedral, or wedge-shaped
- A61F 2230/0089 . . . tetrahedral, i.e. having a triangular basis
- A61F 2230/0091 . . . helically-coiled or spirally-coiled, i.e. having a 2-D spiral cross-section
- A61F 2230/0093 . . . Umbrella-shaped, e.g. mushroom-shaped
- A61F 2230/0095 . . . Saddle-shaped
- A61F 2230/0097 . . . Harpoon-shaped

A61F 2240/00 **Manufacturing or designing of prostheses classified in groups [A61F 2/00](#) to [A61F 2/26](#) or [A61F 2/82](#) or [A61F 9/00](#) or [A61F 11/00](#) or subgroups thereof**

- A61F 2240/001 . Designing or manufacturing processes
- A61F 2240/002 . . Designing or making customized prostheses
- A61F 2240/004 . . . Using a positive or negative model, e.g. moulds
- A61F 2240/005 . . Templates
- A61F 2240/007 . . Dummy prostheses
- A61F 2240/008 . . Means for testing implantable prostheses

A61F 2250/00 **Special features of prostheses classified in groups [A61F 2/00](#) to [A61F 2/26](#) or [A61F 2/82](#) or [A61F 9/00](#) or [A61F 11/00](#) or subgroups thereof**

- A61F 2250/0001 . Means for transferring electromagnetic energy to implants
- A61F 2250/0002 . . for data transfer
- A61F 2250/0003 . having an inflatable pocket filled with fluid, e.g. liquid or gas
- A61F 2250/0004 . adjustable
- A61F 2250/0006 . . for adjusting angular orientation
- A61F 2250/0007 . . for adjusting length
- A61F 2250/0008 . . for adjusting a position by translation along an axis or two perpendicular axes
- A61F 2250/0009 . . for adjusting thickness
- A61F 2250/001 . . for adjusting a diameter
- A61F 2250/0012 . . for adjusting elasticity, flexibility, spring rate or mechanical tension
- A61F 2250/0013 . . for adjusting fluid pressure
- A61F 2250/0014 . having different values of a given property or geometrical feature, e.g. mechanical property or material property, at different locations within the same prosthesis
- A61F 2250/0015 . . differing in density or specific weight
- A61F 2250/0017 . . . differing in yarn density
- A61F 2250/0018 . . differing in elasticity, stiffness or compressibility
- A61F 2250/0019 . . differing in hardness, e.g. Vickers, Shore, Brinell
- A61F 2250/002 . . differing in moment of inertia
- A61F 2250/0021 . . differing in coefficient of friction
- A61F 2250/0023 . . differing in porosity
- A61F 2250/0024 . . . made from both porous and non-porous parts, e.g. adjacent parts

- A61F 2250/0025 . . differing in roughness
- A61F 2250/0026 . . differing in surface structures
- A61F 2250/0028 . . differing in fibre orientations
- A61F 2250/0029 . . differing in bending or flexure capacity
- A61F 2250/003 . . differing in adsorbability or resorbability, i.e. in adsorption or resorption time
- A61F 2250/0031 . . . made from both resorbable and non-resorbable prosthetic parts, e.g. adjacent parts
- A61F 2250/0032 . . differing in radiographic density
- A61F 2250/0034 . . differing in viscosity
- A61F 2250/0035 . . differing in release or diffusion time
- A61F 2250/0036 . . differing in thickness
- A61F 2250/0037 . . differing in height or in length
- A61F 2250/0039 . . differing in diameter
- A61F 2250/004 . . differing in coefficient of thermal expansion, e.g. dilation, dilatation
- A61F 2250/0041 . . differing in wear resistance
- A61F 2250/0042 . . differing in shape-memory transition temperatures, e.g. in martensitic transition temperature, in austenitic transition temperature
- A61F 2250/0043 . . differing in electric properties, e.g. in electrical conductivity, in galvanic properties
- A61F 2250/0045 . . . differing in electromagnetical properties
- A61F 2250/0046 . . differing in melting temperature
- A61F 2250/0047 . . differing in thermal conductivity
- A61F 2250/0048 . . differing in mechanical expandability, e.g. in mechanical, self- or balloon expandability
- A61F 2250/005 . . differing in colour
- A61F 2250/0051 . . differing in tissue ingrowth capacity, e.g. made from both ingrowth-promoting and ingrowth-preventing parts
- A61F 2250/0052 . . . differing in bone ingrowth capacity
- A61F 2250/0053 . . differing in optical properties
- A61F 2250/0054 . . differing in corrosion resistance
- A61F 2250/0056 . . differing in wettability, e.g. in hydrophilic or hydrophobic behaviours
- A61F 2250/0057 . . made from both cured and uncured parts
- A61F 2250/0058 . Additional features; Implant or prostheses properties not otherwise provided for
- A61F 2250/0059 . . temporary
- A61F 2250/006 . . modular
- A61F 2250/0062 . . . Kits of prosthetic parts to be assembled in various combinations for forming different prostheses
- A61F 2250/0063 . . . Nested prosthetic parts
- A61F 2250/0064 . . . Sets comprising a plurality of prosthetic parts of different sizes
- A61F 2250/0065 . . telescopic
- A61F 2250/0067 . . Means for introducing or releasing pharmaceutical products into the body
- A61F 2250/0068 . . . the pharmaceutical product being in a reservoir

- A61F 2250/0069 . . Sealing means
- A61F 2250/007 . . . O-rings
- A61F 2250/0071 . . breakable or frangible
- A61F 2250/0073 . . Force-limiting means
- A61F 2250/0074 . . . Torque-limiting means
- A61F 2250/0075 . . Sound-damping or noise-reducing means
- A61F 2250/0076 . . waterproof
- A61F 2250/0078 . . Gender-specific, e.g. different for male and female patients
- A61F 2250/0079 . . Means for preventing the accidental forgetting of prosthetic parts inside the body during operation
- A61F 2250/008 . . Alarm means
- A61F 2250/0081 . . Prosthesis for animals
- A61F 2250/0082 . . specially designed for children, e.g. having means for adjusting to their growth
- A61F 2250/0084 . . Means for distinguishing between left-sided and right-sided devices; Sets comprising both left-sided and right-sided prosthetic parts
- A61F 2250/0085 . . Identification means; Administration of patients
- A61F 2250/0086 . . . with bar code
- A61F 2250/0087 . . . colour-coded
- A61F 2250/0089 . . . coded with symbols, e.g. dots, numbers, letters, words
- A61F 2250/009 . . for single use, e.g. having means for preventing re-use
- A61F 2250/0091 . . transparent or translucent
- A61F 2250/0092 . . Means for cleaning prostheses
- A61F 2250/0093 . . Ultrasound system, e.g. for inducing coagulation during eye surgery
- A61F 2250/0095 . . . with high intensity focused ultrasound
- A61F 2250/0096 . . Markers and sensors for detecting a position or changes of a position of an implant, e.g. RF sensors, ultrasound markers
- A61F 2250/0097 . . . Visible markings, e.g. indicia
- A61F 2250/0098 . . . radio-opaque, e.g. radio-opaque markers

A61F 2310/00 Prostheses classified in [A61F 2/28](#) or [A61F 2/30](#) to [A61F 2/44](#) being constructed from or coated with a particular material

- A61F 2310/00005 . The prosthesis being constructed from a particular material
- A61F 2310/00011 . . Metals or alloys
- A61F 2310/00017 . . . Iron- or Fe-based alloys, e.g. stainless steel
- A61F 2310/00023 . . . Titanium or titanium-based alloys, e.g. Ti-Ni alloys
- A61F 2310/00029 . . . Cobalt-based alloys, e.g. Co-Cr alloys or Vitallium
- A61F 2310/00035 . . . Other metals or alloys
- A61F 2310/00041 Magnesium or Mg-based alloys
- A61F 2310/00047 Aluminium or Al-based alloys
- A61F 2310/00053 Vanadium or V-based alloys
- A61F 2310/00059 Chromium or Cr-based alloys

A61F 2310/00065	. . . .	Manganese or Mn-based alloys
A61F 2310/00071	. . . .	Nickel or Ni-based alloys
A61F 2310/00077	. . . .	Copper or Cu-based alloys
A61F 2310/00083	. . . .	Zinc or Zn-based alloys
A61F 2310/00089	. . . .	Zirconium or Zr-based alloys
A61F 2310/00095	. . . .	Niobium or Nb-based alloys
A61F 2310/00101	. . . .	Molybdenum or Mo-based alloys
A61F 2310/00107	. . . .	Palladium or Pd-based alloys
A61F 2310/00113	. . . .	Silver or Ag-based alloys
A61F 2310/00119	. . . .	Tin or Sn-based alloys
A61F 2310/00125	. . . .	Hafnium or Hf-based alloys
A61F 2310/00131	. . . .	Tantalum or Ta-based alloys
A61F 2310/00137	. . . .	Tungsten or W-based alloys
A61F 2310/00143	. . . .	Iridium or Ir-based alloys
A61F 2310/00149	. . . .	Platinum or Pt-based alloys
A61F 2310/00155	. . . .	Gold or Au-based alloys
A61F 2310/00161	. .	Carbon; Graphite
A61F 2310/00167	. . .	Diamond or diamond-like carbon
A61F 2310/00173	. . .	Graphite
A61F 2310/00179	. .	Ceramics or ceramic-like structures
A61F 2310/00185	. . .	based on metal oxides
A61F 2310/00191	. . . .	containing beryllium oxide
A61F 2310/00197	. . . .	containing magnesia or magnesium oxide
A61F 2310/00203	. . . .	containing alumina or aluminium oxide
A61F 2310/00209	. . . .	. Corundum or Sapphire
A61F 2310/00215	. . . .	containing silica or silicon oxide
A61F 2310/00221	. . . .	containing calcia or calcium oxide
A61F 2310/00227	. . . .	containing titania or titanium oxide
A61F 2310/00233	. . . .	containing chromia or chromium oxides CrO, CrO ₂ or CrO ₃
A61F 2310/00239	. . . .	containing zirconia or zirconium oxide ZrO ₂
A61F 2310/00245	. . . .	containing niobium oxide
A61F 2310/00251	. . . .	containing hafnia or hafnium oxide
A61F 2310/00257	. . . .	containing tantalum oxide
A61F 2310/00263	. . .	based on metal borides
A61F 2310/00269	. . .	based on metal carbides
A61F 2310/00275	. . . .	containing boron carbide
A61F 2310/00281	. . . .	containing silicon carbide
A61F 2310/00287	. . . .	containing titanium carbide
A61F 2310/00293	. . .	containing a phosphorus-containing compound, e.g. apatite
A61F 2310/00299	. . .	based on metal nitrides

A61F 2310/00305	. . . .	containing boron nitride
A61F 2310/00311	. . . .	containing aluminium nitride
A61F 2310/00317	. . . .	containing silicon nitride
A61F 2310/00323	. . . .	containing titanium nitride
A61F 2310/00329	. .	Glasses, e.g. bioglass
A61F 2310/00335	. . .	Porcelain
A61F 2310/00341	. .	Coral, e.g. aragonite, porite
A61F 2310/00347	. .	Nacre or mother-of-pearl
A61F 2310/00353	. .	Bone cement, e.g. polymethylmethacrylate or PMMA
A61F 2310/00359	. .	Bone or bony tissue
A61F 2310/00365	. .	Proteins; Polypeptides; Degradation products thereof
A61F 2310/00371	. . .	Collagen
A61F 2310/00377	. . .	Fibrin
A61F 2310/00383	. . .	Gelatin
A61F 2310/00389	. .	The prosthesis being coated or covered with a particular material
A61F 2310/00395	. .	Coating or prosthesis-covering structure made of metals or of alloys
A61F 2310/00401	. . .	Coating made of iron, of stainless steel or of other Fe-based alloys
A61F 2310/00407	. . .	Coating made of titanium or of Ti-based alloys
A61F 2310/00413	. . .	Coating made of cobalt or of Co-based alloys
A61F 2310/00419	. . .	Other metals
A61F 2310/00425	. . . .	Coating made of magnesium or of Mg-based alloys
A61F 2310/00431	. . . .	Coating made of aluminium or of Al-based alloys
A61F 2310/00437	. . . .	Coating made of silicon or Si-based alloys
A61F 2310/00443	. . . .	Coating made of vanadium or of V-based alloys
A61F 2310/00449	. . . .	Coating made of chromium or Cr-based alloys
A61F 2310/00455	. . . .	Coating made of manganese Mn-based alloys
A61F 2310/00461	. . . .	Coating made of nickel or Ni-based alloys
A61F 2310/00467	. . . .	Coating made of copper or Cu-based alloys
A61F 2310/00473	. . . .	Coating made of zinc or Zn-based alloys
A61F 2310/00479	. . . .	Coating made of germanium or Ge-based alloys
A61F 2310/00485	. . . .	Coating made of zirconium or Zr-based alloys
A61F 2310/00491	. . . .	Coating made of niobium or Nb-based alloys
A61F 2310/00497	. . . .	Coating made of molybdenum or Mo-based alloys
A61F 2310/00502	. . . .	Coating made of ruthenium or Ru-based alloys
A61F 2310/00508	. . . .	Coating made of rhodium or Rh-based alloys
A61F 2310/00514	. . . .	Coating made of palladium or Pd-based alloys
A61F 2310/0052	. . . .	Coating made of silver or Ag-based alloys
A61F 2310/00526	. . . .	Coating made of indium or In-based alloys
A61F 2310/00532	. . . .	Coating made of tin or Sn-based alloys
A61F 2310/00538	. . . .	Coating made of hafnium or Hf-based alloys

A61F 2310/00544	. . . .	Coating made of tantalum or Ta-based alloys
A61F 2310/0055	. . . .	Coating made of tungsten or W-based alloys
A61F 2310/00556	. . . .	Coating made of iridium or Ir-based alloys
A61F 2310/00562	. . . .	Coating made of platinum or Pt-based alloys
A61F 2310/00568	. . . .	Coating made of gold or Au-based alloys
A61F 2310/00574	. .	Coating or prosthesis-covering structure made of carbon, e.g. of pyrocarbon
A61F 2310/0058	. . .	Coating made of diamond or of diamond-like carbon DLC
A61F 2310/00586	. . .	Coating made of graphite
A61F 2310/00592	. .	Coating or prosthesis-covering structure made of ceramics or of ceramic-like compounds
A61F 2310/00598	. . .	Coating or prosthesis-covering structure made of compounds based on metal oxides or hydroxides
A61F 2310/00604	. . . .	Coating made of aluminium oxide or hydroxides
A61F 2310/0061	. . . .	Coating made of silicon oxide or hydroxides
A61F 2310/00616	. . . .	Coating made of titanium oxide or hydroxides
A61F 2310/00622	. . . .	Coating made of chromium oxide or hydroxides
A61F 2310/00628	. . . .	Coating made of cobalt oxide or hydroxides
A61F 2310/00634	. . . .	Coating made of zirconium oxide or hydroxides
A61F 2310/0064	. . . .	Coating made of niobium oxide or hydroxides
A61F 2310/00646	. . . .	Coating made of molybdenum oxide or hydroxides
A61F 2310/00652	. . . .	Coating made of hafnium oxide or hydroxides
A61F 2310/00658	. . . .	Coating made of tantalum oxide or hydroxides
A61F 2310/00664	. . . .	Coating made of tungsten oxide or hydroxides
A61F 2310/0067	. . .	Coating or prosthesis-covering structure made of compounds based on metal borides
A61F 2310/00676	. . . .	Coating made of aluminium boride
A61F 2310/00682	. . . .	Coating made of titanium boride
A61F 2310/00688	. . . .	Coating made of vanadium boride
A61F 2310/00694	. . . .	Coating made of chromium boride
A61F 2310/007	. . . .	Coating made of cobalt boride
A61F 2310/00706	. . . .	Coating made of zirconium boride
A61F 2310/00712	. . . .	Coating made of molybdenum boride
A61F 2310/00718	. . . .	Coating made of lanthanum boride
A61F 2310/00724	. . . .	Coating made of tungsten boride
A61F 2310/0073	. . .	Coating or prosthesis-covering structure made of compounds based on metal carbides
A61F 2310/00736	. . . .	Coating made of boron carbide
A61F 2310/00742	. . . .	Coating made of silicon carbide
A61F 2310/00748	. . . .	Coating made of titanium carbide
A61F 2310/00754	. . . .	Coating made of chromium carbide
A61F 2310/0076	. . . .	Coating made of nickel carbide

A61F 2310/00766	. . . .	Coating made of zirconium carbide
A61F 2310/00772	. . . .	Coating made of niobium carbide
A61F 2310/00778	. . . .	Coating made of hafnium carbide
A61F 2310/00784	. . . .	Coating made of tantalum carbide
A61F 2310/0079	. . . .	Coating made of tungsten carbide
A61F 2310/00796	. . .	Coating or prosthesis-covering structure made of a phosphorus-containing compound, e.g. hydroxy(l)apatite
A61F 2310/00802	. . .	Coating or prosthesis-covering structure made of compounds based on metal hydrides
A61F 2310/00808	. . . .	Coating made of titanium hydride
A61F 2310/00814	. . . .	Coating made of vanadium hydride
A61F 2310/0082	. . . .	Coating made of chromium hydride
A61F 2310/00826	. . . .	Coating made of zirconium hydride
A61F 2310/00832	. . . .	Coating made of niobium hydride
A61F 2310/00838	. . . .	Coating made of hafnium hydride
A61F 2310/00844	. . . .	Coating made of tantalum hydride
A61F 2310/0085	. . .	Coating or prosthesis-covering structure made of compounds based on metal chlorides
A61F 2310/00856	. . .	Coating or prosthesis-covering structure made of compounds based on metal nitrides
A61F 2310/00862	. . . .	Coating made of boron nitride
A61F 2310/00868	. . . .	Coating made of aluminium nitride
A61F 2310/00874	. . . .	Coating made of silicon nitride
A61F 2310/0088	. . . .	Coating made of titanium nitride
A61F 2310/00886	. . . .	Coating made of chromium nitride
A61F 2310/00892	. . . .	Coating made of zirconium nitride
A61F 2310/00898	. . . .	Coating made of niobium nitride
A61F 2310/00904	. . . .	Coating made of hafnium nitride
A61F 2310/0091	. . . .	Coating made of tantalum nitride
A61F 2310/00916	. . .	Coating or prosthesis-covering structure made of compounds based on metal sulfides
A61F 2310/00922	. . . .	Coating made of molybdenum sulfide
A61F 2310/00928	. .	Coating or prosthesis-covering structure made of glass or of glass-containing compounds, e.g. of bioglass
A61F 2310/00934	. . .	Coating made of enamel
A61F 2310/0094	. . .	Coating made of porcelain
A61F 2310/00946	. .	Coating or prosthesis-covering structure made of nacre or mother-of-pearl
A61F 2310/00952	. .	Coating, pre-coating or prosthesis-covering structure made of bone cement, e.g. pre-applied PMMA cement mantle
A61F 2310/00958	. .	Coating or prosthesis-covering structure made of bone or of bony tissue
A61F 2310/00964	. .	Coating or prosthesis-covering structure made of cartilage

- A61F 2310/0097 . . Coating or prosthesis-covering structure made of pharmaceutical products,
e.g. antibiotics
- A61F 2310/00976 . . Coating or prosthesis-covering structure made of proteins or of polypeptides,
e.g. of bone morphogenic proteins BMP or of transforming growth factors
TGF
- A61F 2310/00982 . . . Coating made of collagen
- A61F 2310/00988 . . . Coating made of fibrin
- A61F 2310/00994 . . . Coating made of gelatin