

SECTION A — HUMAN NECESSITIES

A61 MEDICAL OR VETERINARY SCIENCE; HYGIENE

A61M DEVICES FOR INTRODUCING MEDIA INTO, OR ONTO, THE BODY (introducing media into or onto the bodies of animals A61D 7/00; means for inserting tampons A61F 13/26; devices for administering food or medicines orally A61J; containers for collecting, storing or administering blood or medical fluids A61J 1/05); **DEVICES FOR TRANSDUCING BODY MEDIA OR FOR TAKING MEDIA FROM THE BODY** (surgery A61B; chemical aspects of surgical articles A61L; magnetotherapy using magnetic elements placed within the body A61N 2/10); **DEVICES FOR PRODUCING OR ENDING SLEEP OR STUPOR** [4, 5]

Note(s)

1. This subclass covers suction, pumping or atomising devices for medical use (e.g. cups, breast relievers, irrigators, sprays, powder insufflators, atomisers, inhalers), apparatus for general or local anaesthetics, devices or methods for causing a change in the state of consciousness, catheters, dilators, apparatus for introducing medicines into the body other than orally.
2. In this subclass, group A61M 36/00, which relates to the application of radioactive material to the body, takes precedence over other groups.
3. When classifying in this subclass, classification is also made in group B01D 15/08 insofar as subject matter of general interest relating to chromatography is concerned.

Subclass index

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|---|----------------------------|
| SUCTION OR PUMPING DEVICES..... | 1/00 |
| SYRINGES; IRRIGATORS; BATHS FOR THE INTESTINES..... | 3/00, 5/00, 9/00 |
| SPRAYERS, ATOMISERS; INSUFFLATORS..... | 11/00, 13/00 |
| INHALING DEVICES..... | 15/00, 16/00 |
| DEVICES FOR PRODUCING OR ENDING SLEEP OR ANAESTHESIA..... | 16/00, 19/00, 21/00 |
| PROBES, CATHETERS; DRAINS; DILATORS..... | 23/00, 25/00, 27/00, 29/00 |
| TUBES, TUBE CONNECTORS, TUBE COUPLINGS, VALVES, ACCESS SITES OR THE LIKE, SPECIALLY ADAPTED FOR MEDICAL USE..... | 39/00 |
| OTHER DEVICES FOR INTRODUCING OR RETAINING REMEDIES IN THE BODY..... | 31/00, 37/00 |
| OTHER DEVICES FOR SPREADING REMEDIES ON THE BODY..... | 35/00 |
| APPLYING RADIOACTIVE MATERIAL TO THE BODY..... | 36/00 |

- 1/00 Suction or pumping devices for medical purposes; Devices for carrying-off, for treatment of, or for carrying-over, body-liquids; Drainage systems** (catheters A61M 25/00; tube connectors, tube couplings, valves or branch units, specially adapted for medical use A61M 39/00; devices for taking samples of blood A61B 5/15; saliva removers for dentists A61C 17/06; filters implantable into blood vessels A61F 2/01) [5]
- 1/02 • Blood transfusion apparatus (blood infusion by syringes A61M 5/14)
- 1/04 • Pneumothorax apparatus
- 1/06 • Milking pumps
- 1/08 • Cupping glasses
- 1/10 • Blood pumps; Artificial hearts; Devices for mechanical circulatory assistance, e.g. intra-aortic balloon pumps (heart stimulation A61H 31/00) [4]
- 1/12 • • implantable into the body [4]
- 1/14 • Dialysis systems; Artificial kidneys; Blood oxygenators (semi-permeable membranes characterised by the material, manufacturing processes therefor B01D 71/00) [4]
- 1/16 • • with membranes [4]
- 1/18 • • • in the shape of hollow fibres [4]
- 1/20 • • • tubular [4]

- 1/22 • • • sheet-like [4]
- 1/24 • • • spirally wound [4]
- 1/26 • • • which are moving [4]
- 1/28 • • Peritoneal dialysis [4]
- 1/30 • • Single needle dialysis [4]
- 1/32 • • Oxygenators without membranes [4]
- 1/34 • Filtering material out of the blood by passing it through a membrane, i.e. hemofiltration, diafiltration [4]
- 1/36 • Other treatment of blood in a by-pass of the natural circulatory system, e.g. temperature adaptation, irradiation [4]
- 1/38 • • Removing constituents from donor blood and returning remainder to body [5]

Syringes; Irrigators; Baths for subaquatic intestinal cleaning [6]

- 3/00 Medical syringes, e.g. enemata; Irrigators** (A61M 5/00 takes precedence; pistons A61M 5/315) [2]
- 3/02 • Enemata; Irrigators [5]
- 3/04 • • specially adapted for the uterus [5]
- 3/06 • • combined with bidets [5]

5/00 Devices for bringing media into the body in a subcutaneous, intra-vascular or intramuscular way; Accessories therefor, e.g. filling or cleaning devices, arm rests (tube connectors, tube couplings, valves or branch units, specially adapted for medical use A61M 39/00; containers specially adapted for medical or pharmaceutical purposes A61J 1/00) [5]

5/14 • Infusion devices, e.g. infusing by gravity; Blood infusion; Accessories therefor [5]

5/142 • • Pressure infusion, e.g. using pumps [5]

Note(s)

In this group, the following expression is used with the meaning indicated:

- "pressure infusion" includes powered injection working at a controlled rate.

5/145 • • • using pressurised reservoirs, e.g. by means of pistons [5]

5/148 • • • • flexible (A61M 5/155 takes precedence) [5]

5/152 • • • • • pressurised by contraction of elastic reservoirs [5]

5/155 • • • • • pressurised by gas [5]

5/158 • • Needles [5]

5/162 • • Needle sets, i.e. connections by puncture between reservoir and tube [5]

5/165 • • Filtering accessories, e.g. blood filters, filters for infusion liquids (A61M 1/34, A61M 5/36 take precedence) [5]

5/168 • • Means for controlling media flow to the body or for metering media to the body, e.g. drip meters, counters [5]

5/172 • • • electrical or electronic [5]

5/175 • • • mechanical [5]

5/178 • Syringes [5]

5/19 • • having more than one chamber [5]

5/20 • • Automatic syringes, e.g. with automatically actuated piston rod, with automatic needle injection, filling automatically (A61M 5/142 takes precedence) [2, 5]

5/24 • • Ampoule syringes, i.e. syringes with needle for use in combination with replaceable ampoules or cartridges, e.g. automatic [5]

5/28 • • Syringe ampoules or cartridges, i.e. ampoules or cartridges provided with a needle [5]

5/30 • • Syringes for injection by jet action, without needle, e.g. for use with replaceable ampoules or cartridges [5]

5/303 • • • Media expelled from injector by explosive charge [5]

5/307 • • • Media expelled from injector by pressurised fluid [5]

5/31 • • Details [2, 5]

5/315 • • • Pistons; Piston-rods; Guiding, blocking or restricting the movement of the rod; Appliances on the rod for facilitating dosing [2, 5]

5/32 • • • Needles; Details of needles pertaining to their connection with syringe or hub (infusion needles A61M 5/158); Accessories for bringing the needle into, or holding the needle on, the body; Devices for protection of needles [2, 5]

5/34 • • • • Constructions for connecting the needle [2, 5]

5/36 • with means for eliminating or preventing injection or infusion of air into body [5]

5/38 • • using hydrophilic or hydrophobic filters [5]

5/40 • • using low-level float-valve to cut off media flow from reservoir [5]

5/42 • having means for desensitising skin, for protruding skin to facilitate piercing, or for locating point where body is to be pierced [5]

5/44 • having means for cooling or heating the devices or media [5]

5/46 • having means for controlling depth of insertion [5]

5/48 • having means for varying, regulating, indicating or limiting injection pressure (A61M 5/142 takes precedence) [5]

5/50 • having means for preventing re-use, or for indicating if defective, used, tampered with or unsterile [5]

5/52 • Arm-rests [5]

9/00 Baths for subaquatic intestinal cleaning

Sprayers; Atomisers; Insufflators

11/00 Sprayers or atomisers specially adapted for therapeutic purposes

11/02 • operated by air pressure applied to the liquid to be sprayed or atomised

11/04 • operated by the vapour pressure of the liquid to be sprayed or atomised

11/06 • of the injector type

11/08 • • Pocket atomisers of the injector type

13/00 Insufflators for therapeutic or disinfectant purposes

Inhaling devices

15/00 Inhalators

15/02 • with activated or ionized gases; Ozone-inhalators

15/06 • Inhaling appliances shaped like cigars, cigarettes or pipes

15/08 • Inhaling devices inserted into the nose

16/00 Devices for influencing the respiratory system of patients by gas treatment, e.g. mouth-to-mouth respiration; Tracheal tubes (stimulating the respiratory movement by mechanical, pneumatic or electrical means, iron lungs combined with gas breathing means A61H 31/00) [4]

16/01 • specially adapted for anaesthetising [4]

16/04 • Tracheal tubes [4]

16/06 • Respiratory or anaesthetic masks [4]

16/08 • Bellows; Connecting tubes [4]

16/10 • Preparation of respiratory gases or vapours [4]

16/12 • • by mixing different gases [4]

16/14 • • by mixing different fluids, one of them being in a liquid phase [4]

16/16 • • • Devices to humidify the respiration air [4]

16/18 • • • Vaporising devices for anaesthetic preparations [4]

16/20 • Valves specially adapted to medical respiratory devices [4]

16/22 • Carbon dioxide-absorbing devices [4]

Other devices for producing sleep or stupor; Devices for ending sleep or stupor [4]

19/00 Devices for local anaesthesia; Devices for hypothermia (A61M 5/42 takes precedence) [2]

- 21/00 Other devices or methods to cause a change in the state of consciousness; Devices for producing or ending sleep by mechanical, optical, or acoustical means, e.g. for hypnosis** (beds for promoting sleep A61G 7/043)
- 21/02 • for inducing sleep or relaxation, e.g. by direct nerve stimulation, hypnosis, analgesia (for massage A61H; electrotherapy A61N, e.g. applying alternating or intermittent electric currents for producing anaesthesia A61N 1/34) [5]

Probes; Catheters; Dilators; Drainage appliances for wounds

23/00 Solid probes; Bougies

- 25/00 Catheters; Hollow probes** (for measuring or testing A61B)
- 25/01 • Introducing, guiding, advancing, emplacing or holding catheters (A61M 25/10 takes precedence) [5]
- 25/02 • • Holding devices, e.g. on the body [5]
- 25/04 • • • in the body, e.g. expansible [5]
- 25/06 • • Body-piercing guide needles or the like (A61M 25/088 takes precedence) [5, 6]
- 25/08 • • Advancing means, e.g. self-propelled [5]
- 25/082 • • • Self-propulsion arrangements (A61M 25/085 takes precedence) [6]
- 25/085 • • • Fluid propulsion [6]
- 25/088 • • using an additional catheter, e.g. to reach relatively inaccessible places [6]
- 25/09 • • Guide wires [6]
- 25/092 • • Remote control of the orientation of the distal end [6]
- 25/095 • • Arrangements for enabling the detection of the internal position of the catheter, e.g. radiographically [6]
- 25/098 • • • using radio-opaque markers [6]
- 25/10 • Balloon catheters [5]
- 25/12 • • Arrangements for detaching the balloon when in place [6]
- 25/14 • Arrangement or shape of fluid flow passages, e.g. of plural fluid passages (A61M 25/10 takes precedence) [6]
- 25/16 • Making or assembling not otherwise provided for [6]
- 25/18 • • Connecting catheters or probes to hubs [6]

27/00 Drainage appliances for wounds, or the like (implements for holding wounds open A61B 17/02)

- 29/00 Dilators with or without means for introducing media, e.g. remedies** (stents A61F 2/82) [2]
- 29/02 • Inflatable dilators (connection of valves to inflatable elastic bodies B60C 29/00); Dilators made of swellable materials [3]
- 29/04 • • Dilators made of swellable materials [5]

- 31/00 Devices for introducing or retaining media, e.g. remedies, in cavities of the body** (A61M 25/00 takes precedence) [2, 5]

35/00 Devices for applying media, e.g. remedies, on the human body (devices for handling toilet or cosmetic substances A45D; absorbent pads, e.g. swabs, A61F 13/15) [2]

36/00 Applying radioactive material to the body [5]

- 36/02 • combined with other radiant- or wave-energy source, e.g. electromagnetic, thermal, micro-wave [5]
- 36/04 • Arrangements specially adapted for placing, e.g. inhaling or injecting, radioactive material within the body [5]
- 36/06 • • by fluid injection of radioactive or enhancing agent through a body-piercing conduit [5]
- 36/08 • • • Fluid reservoir shielding, e.g. syringe shielding [5]
- 36/10 • • Utero-vaginal or pelvic application [5]
- 36/12 • • Injectors, holders for seeds or implants, e.g. capsules [5]
- 36/14 • Radioactive dressings [5]

37/00 Other apparatus for introducing media into the body (for reproduction or fertilisation A61B 17/425; apparatus for iontophoresis or cataphoresis A61N 1/30); **Percutany, i.e. introducing medicines into the body by diffusion through the skin** (salt baths A61H 33/04) [5]

39/00 Tubes, tube connectors, tube couplings, valves, access sites or the like, specially adapted for medical use (for respiratory devices, e.g. tracheal tubes, A61M 16/00; artificial heart valves A61F 2/24) [5]

- 39/02 • Access sites [5]
- 39/04 • • having pierceable self-sealing members [5]
- 39/06 • • Haemostasis valves, i.e. gaskets sealing around a needle, catheter or the like, closing on removal thereof [6]
- 39/08 • Tubes; Storage means specially adapted therefor [6]
- 39/10 • Tube connectors or tube couplings [6]
- 39/12 • • for joining a flexible tube to a rigid attachment [6]
- 39/14 • • for connecting tubes having sealed ends [6]
- 39/16 • • having provision for disinfection or sterilisation [6]
- 39/18 • • • Methods or apparatus for making the connection under sterile conditions, i.e. sterile docking [6]
- 39/20 • Closure caps or plugs for connectors or open ends of tubes [6]
- 39/22 • Valves or arrangement of valves [6]
- 39/24 • • Check- or non-return valves [6]
- 39/26 • • Valves closing automatically on disconnecting the line and opening on reconnection thereof [6]
- 39/28 • • Clamping means for squeezing flexible tubes, e.g. roller clamps [6]