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); DEVICES FOR PRODUCING OR ENDING SLEEP OR STUPOR

Definition statement

This place covers:

Devices or processes specially adapted to be used to insert or place media into human bodies (e.g., pumps, syringes, atomisers, insufflators, inhalers) and that do so either
- by an artificial method (i.e., a human created or contrived method that cannot occur naturally such as hypodermic-syringe injections) or
- by enhancing a naturally occurring method (e.g., inhalers used in conjunction with normal breathing) other than oral..

Devices or processes specially adapted to be used to place media upon human bodies (e.g., percutaneous devices, radioactive dressings) and that do so either
- by an artificial method or
- by enhancing a naturally occurring method (e.g., standard absorption, rubbing substances onto skin).

Devices or processes which are specially adapted to be used to direct, lead, convey, or carry media up to, away from, or within human bodies (e.g., tubes for carrying oxygen, medical pumps, artificial hearts, mechanical blood circulatory assistors, blood oxygenation devices, devices for artificial respiration by treatment with gas or air) and that do so either
- by an artificial method (e.g., dialysis systems) or
- by enhancing a naturally occurring method (e.g., standard circulation of blood, standard discharging of bodily waste).

Devices or processes specially adapted to be used to remove, eject, or expel media from human bodies (e.g., suction type breast relievers, discharge draining devices for wounds) and that do so
- by an artificial method (e.g., subaquatic intestinal cleaning systems) or
- by enhancing a naturally occurring method (e.g., babies sucking on breast, boils natural discharging).

Devices or processes specially adapted to cause or provoke a change in the state of consciousness of humans (e.g., induce sleep, fully awaken) and that do so in a manner other than one which commonly occurs (e.g., falling asleep on a good mattress, physical exhaustion).

Devices or processes specially adapted to increase or decrease the mental activity of humans while awake (e.g., relax, stimulate) and that do so in a manner other than that which commonly occurs (e.g., creating boredom).

Accessories specially adapted for use with at least one of the above devices and that contribute to the effectiveness or safety of the device or its use.

Specially adapted components having structural features limiting them to use with a device of one of the types specified above.
Relationships with other classification places

When used with animals

If a device or process is usable for both humans and animals for the same purpose and in the same manner, and it is otherwise proper for this subclass, classification is made only in subclass A61M. Similar devices or processes to those covered by subclass A61M that are usable exclusively for animals, or are used in animals in a different manner or for different purposes than for humans, are classified in subclass A61D.

When used with living or dead human bodies

Patent documents for general-purpose medical devices or processes that are otherwise proper for subclass A61M are classified in subclass A61M when they either disclose only being used on living human bodies or broadly disclose being used on humans. Patent documents for general-purpose medical devices or processes that are otherwise proper for subclass A61M and fully identified as being used on both living and dead human bodies are classified in subclass A61M and subclass A01N or A61B. Patent documents for similar devices or processes to those covered by subclass A61M that are specially adapted for use exclusively on dead humans are classified only in subclass A01N or A61B.

Implantable prostheses or artificial organ replacements

With regard to human organs and their parts, the exact distinction between the artificial devices implantable into human bodies that are proper for subclass A61F and those proper for subclass A61M is somewhat imprecise. Therefore, for analogous situations that are not specifically covered by existing groups of these subclasses, the following listings are intended to provide guidance. Subclass A61F provides for the following replacements or substitutes for internal body organs or their parts: artificial hollow or tubular parts of organs (e.g., bladders, tracheae, bronchi, hearts valves and blood vessels, bile ducts), structural supporting or maintaining devices for such parts or their natural equivalents (e.g., stents), artificial eyes, and artificial ears. Subclass A61M provides for the following replacements or substitutes for internal body organs or their parts: artificial hearts, artificial livers, artificial ventilators, artificial pancreas, and artificial kidneys.

References

Limiting references

This place does not cover:

| Applications or methods that use specific materials, compositions, or single compounds for the preservation of human bodies or for the preservation of living parts of human bodies | A01N 1/00 |
| Devices or methods for handling cosmetic or toilet substances | A45D |
| Surgical introduction or removal of body parts or their substitutes | A61B |
| Devices specially adapted for taking blood samples | A61B 5/15 |
| Devices specially adapted for vivisection or autopsy | A61B 16/00 |
| Devices or methods for introducing solid, liquid, or gaseous remedies or other materials into or onto the bodies of animals | A61D 7/00 |
| Prostheses implantable into a human body | A61F 2/02 |
| Medicinal preparations characterised by special physical form | A61K 9/00 |
| Chemical aspects of bandages, dressings, absorbent pads, or other surgical articles placed upon into human body | A61L |
| Electrotherapy, e.g. producing anaesthesia by the use of alternating or intermittent currents | A61N 1/36021 |
**Application-oriented references**

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

| Devices worn by patients for reception of urine, faeces, catamenial, or other bodily discharges | A61F 5/44 |
| Application swabs | A61F 13/15 |
| Devices for receiving spittle | A61J 19/00 |

**Informative references**

Attention is drawn to the following places, which may be of interest for search:

| Devices worn by patients for reception of urine, faeces, catamenial, or other bodily discharges | A61F 5/44 |
| Application swabs | A61F 13/15 |
| Devices for receiving spittle | A61J 19/00 |

**Special rules of classification**

When a device or method covered by subclass A61M includes a separating process for body-liquids that utilizes chromatography, and features of general interest related to chromatography are usefully disclosed but not claimed, the features should also be non-obligatorily classified within group B01D 15/08.

The breakdown symbols (i.e. the non "parallel" or non "mirror" symbols) and "orthogonal" symbols are to be used for classifying the invention information (in addition to the invention symbols) in case the invention is insufficiently classified by an invention information symbol. They are also to be used for classifying the additional information. They are stored in the additional information field.

**Glossary of terms**

In this place, the following terms or expressions are used with the meaning indicated:

| Media | Solid, liquid, or gaseous substances or devices (e.g., medicine, food, in vivo testing material, catheters) which are either used by or within human bodies for medical or physical purposes, components of or substances naturally within human bodies (e.g., artificial heart, blood, insulin), or bodily discharge or waste created by human bodies or medical processes taking place within human bodies (e.g., urine). |
A61M 1/00

Suction or pumping devices for medical purposes; Devices for carrying-off, for treatment of, or for carrying-over, body-liquids; Drainage systems (A61M 3/00 - A61M 5/00, A61M 11/00 - A61M 16/00, A61M 27/00 - A61M 35/00 take precedence); 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 5/14; implements for holding wounds open A61B 17/02; (saliva removers for dentists A61C 17/06); filters implantable into blood vessels A61F 2/01; pumps in general F04)

References

Limiting references

This place does not cover:

<table>
<thead>
<tr>
<th>Device Type</th>
<th>CPC Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Irrigators; Enemata</td>
<td>A61M 3/00</td>
</tr>
<tr>
<td>Syringes; Infusion devices</td>
<td>A61M 5/00</td>
</tr>
<tr>
<td>Infusion devices using feedback of body parameters, e.g. blood-sugar, pressure, artificial pancreas</td>
<td>A61M 5/1723</td>
</tr>
<tr>
<td>Sprayers or atomizers</td>
<td>A61M 11/00</td>
</tr>
<tr>
<td>Inhalators</td>
<td>A61M 15/00</td>
</tr>
<tr>
<td>Respirators</td>
<td>A61M 16/00</td>
</tr>
<tr>
<td>Drainage appliances for wounds</td>
<td>A61M 27/00</td>
</tr>
<tr>
<td>Dilators</td>
<td>A61M 29/00</td>
</tr>
<tr>
<td>Devices for introducing or retaining media</td>
<td>A61M 31/00</td>
</tr>
<tr>
<td>Devices for applying media</td>
<td>A61M 35/00</td>
</tr>
<tr>
<td>Implantable gland structures or devices, e.g. implantable artificial pancreas</td>
<td>A61F 2/022</td>
</tr>
<tr>
<td>In vitro human cell grow apparatus</td>
<td>C12M 3/00</td>
</tr>
</tbody>
</table>

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Device Type</th>
<th>CPC Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-implantable gland structures or devices, e.g. non-implantable artificial pancreas</td>
<td>A61M 1/3489, A61M 1/3679, A61M 1/3689</td>
</tr>
<tr>
<td>Catheters</td>
<td>A61M 25/00</td>
</tr>
<tr>
<td>Tube connectors, tube couplings, valves or branch units specially adapted for medical use</td>
<td>A61M 39/00</td>
</tr>
<tr>
<td>Devices for taking samples of blood</td>
<td>A61B 5/14</td>
</tr>
<tr>
<td>Implements for holding wounds open</td>
<td>A61B 17/02</td>
</tr>
<tr>
<td>Saliva removers for dentists</td>
<td>A61C 17/06</td>
</tr>
<tr>
<td>Filters implantable into blood vessels</td>
<td>A61F 2/01</td>
</tr>
<tr>
<td>Devices worn by the patient for reception of urine, faeces, catamenial or other discharge</td>
<td>A61F 5/44</td>
</tr>
</tbody>
</table>
Tissue or organ culture | C12N 5/0671
Pumps in general | F04B, F04C, F04D, F04F

Special rules of classification

The breakdown symbols (i.e. the non "parallel" or non "mirror" symbols) and "orthogonal" symbols are to be used for classifying the invention information (in addition to the invention symbols) in case the invention is insufficiently classified by an invention information symbol. They are also to be used for classifying the additional information. They are stored in the additional information field.

The "orthogonal" Indexing Code symbols (A61M 2202/00 - A61M 2250/00) are also used.

A61M 1/0001

{Containers for suction drainage, e.g. rigid containers}

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Blood reservoirs | A61M 1/3627 |

Special rules of classification

This group covers containers which are described as being usable in the context of medical suction drainage, they thus can be considered as being part of a suction device. Therefore there is no contradiction with the definition of A61M 1/00. The containers do not need to be rigid but many of them are. They are not required to act as a pump but some do, and then the appropriate subgroups may be applicable (e.g. A61M 1/0009, A61M 1/0011 or A61M 1/0003 in some cases). It does not always make sense to say that they are capable of being subject to vacuum, e.g. in the case that they have a flexible member creating suction this would make no sense. However, if it is clear that a container is not capable of being subject to vacuum there is the special group A61M 1/0019 for those. The fluid does not have to pass through the vacuum source, but it can, in some cases.

A61M 1/0003

{Self-contained vacuum aspirators}

Definition statement

This place covers:

Vacuum aspirators which contain the pumping means and the containers in a compact way, e.g. mucous aspirators for babies

A61M 1/0005

{with means for emptying the suction container, e.g. by interrupting suction}

Definition statement

This place covers:

Containers for suction drainage having foreseen means for emptying the container, e.g. means allowing to remove the container without interrupting the suction or means for interrupting suction so that the container can be removed; pulsating suction is not considered as having interruptions in the sense of the present definition
References

Informative references
Attention is drawn to the following places, which may be of interest for search:
also for blood transfusion

A61M 1/0009

{incorporating a movable wall to create suction, e.g. syringes (with a flexible member creating suction A61M 1/0011; cupping glasses A61M 1/08)}

Definition statement
This place covers:
Only drainage containers (thus not syringe pumps where the aspirated material is not entering the syringe barrel) incorporating a movable rigid wall

References

Limiting references
This place does not cover:

| Containers with a flexible member creating suction | A61M 1/0011 |
| Cupping glasses | A61M 1/08 |

Informative references
Attention is drawn to the following places, which may be of interest for search:

| Piston (air) pumps for creating suction | A61M 1/0068 |

A61M 1/0011

{Drainage containers incorporating a flexible member creating suction, e.g. bags in a low-pressure chamber, bellows}

Definition statement
This place covers:
only DRAINAGE CONTAINERS having a flexible member, thus not bulb or membrane pumps where the aspirated material is not collected inside the pump

References

Informative references
Attention is drawn to the following places, which may be of interest for search:

| Rigid container with flexible liner | A61M 1/0001 |
| Liner in a rigid container | A61M 1/0017 |
| Membrane (air) pumps for creating suction | A61M 1/0072 |
| Emptying infusion-containers | A61M 5/1483 |
A61M 1/0013

{Two- or three-bottle systems for underwater drainage, e.g. for chest cavity drainage}

Definition statement

This place covers:

Systems for underwater drainage having a chamber functioning as a "water seal", which acts as a one way valve allowing gas to escape, but not to reenter, often called two- or three bottle systems, e.g. for chest cavity drainage

Synonyms and Keywords

Thoracic or pleural drainage

A61M 1/0019

{Drainage containers not being adapted for subjection to vacuum, e.g. bags (devices worn by the patient for reception of urine A61F 5/44; emptying devices for drainage bags B65B 69/0016)}

References

Limiting references

This place does not cover:

<table>
<thead>
<tr>
<th>Devices worn by the patient for the reception of urine</th>
<th>A61F 5/44</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emptying devices for drainage bags</td>
<td>B65B 69/0016</td>
</tr>
</tbody>
</table>

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Surgical drapes with fluid collection means                                              | A61B 46/00 |

Special rules of classification

This group and A61M 1/0001 relate to containers which are usable with a suction system. Therefore it is implicit that they are part of a suction device and a subgroup of A61M 1/00. However, a lot of documents describe in detail such a container and not the rest of the suction device or system (pump, drainage tube) necessary for the drainage process. Such a document should still be classified in A61M 1/0005 or in A61M 1/0001 and subgroups, even if it does not describe the rest of the suction systems.

A61M 1/0021

{Gravity drainage systems (A61M 1/0019 takes precedence)}

References

Limiting references

This place does not cover:

| Drainage containers not being adapted for subjection to vacuum                          | A61M 1/0019 |
A61M 1/0023

{Suction drainage systems (containers therefor A61M 1/0001; suction-irrigation systems A61M 1/0058)}

Definition statement

This place covers:
Units with incorporated vacuum source, through which no liquid passes:

References

Limiting references

This place does not cover:

<table>
<thead>
<tr>
<th>Description</th>
<th>CPC Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>units with incorporated vacuum source through which liquid passes, these</td>
<td>A61M 1/0001</td>
</tr>
<tr>
<td>are considered as pumping containers for suction drainage which are</td>
<td></td>
</tr>
<tr>
<td>comprised in the groups of containers</td>
<td></td>
</tr>
</tbody>
</table>

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Type</th>
<th>CPC Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Containers</td>
<td>A61M 1/0001</td>
</tr>
<tr>
<td>Suction-irrigation systems</td>
<td>A61M 1/0058</td>
</tr>
</tbody>
</table>

Special rules of classification

A suction drainage system generally has a suction means, a container and a drainage tube. If the focus is on the container, A61M 1/0001 or its subgroups should be used. If the focus is on the system, A61M 1/0023 or subgroups is used. If both are described, both classifications should be given. If the vacuum source is at the same time the container receiving the drained liquid, then the device is not considered as a system but as a container. Therefor only the appropriate subgroup of A61M 1/0001 should be used or the head group A61M 1/0001 if none of the subgroups applies.

A61M 1/0031

{Suction control (A61M 1/0013, A61M 1/0041 take precedence)}

Definition statement

This place covers:
This group covers suction irrigation systems describing details of the way suction is controlled

References

Limiting references

This place does not cover:

<table>
<thead>
<tr>
<th>Description</th>
<th>CPC Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two- or three-bottle systems for underwater drainage</td>
<td>A61M 1/0013</td>
</tr>
<tr>
<td>With means for varying suction manually</td>
<td>A61M 1/0041</td>
</tr>
</tbody>
</table>
Informative references
Attention is drawn to the following places, which may be of interest for search:

| Controlling pressure, in general | A61M 2205/3331 |

A61M 1/0037
{Intermittent or pulsating suction (A61M 1/0005, A61M 1/0062 take precedence)}

References

Limiting references
This place does not cover:

| With means for emptying the suction container, e.g. by interrupting suction | A61M 1/0005 |
| Operating alternately | A61M 1/0062 |

A61M 1/0039
{Handpieces (aspiration tips A61M 1/008)}

Definition statement
This place covers:
Handpieces, these being the proximal part of the device which the surgeon holds in his hand to perform suction drainage, e.g. for controlling suction

References

Informative references
Attention is drawn to the following places, which may be of interest for search:

| Aspiration tips | A61M 1/008 |

A61M 1/0041
{with means for varying suction manually (suction control A61M 1/0031)}

References

Informative references
Attention is drawn to the following places, which may be of interest for search:

| Suction control more generally | A61M 1/0031 |
**A61M 1/0043**  
{by changing the section of the line}

**Definition statement**

*This place covers:*

Handpieces with means for varying suction manually by changing the cross section of the line, e.g. changing the cross section of the line by pinching tubing

**A61M 1/0047**  
{by changing the size of a vent (in combination with changing the section of the line A61M 1/0043)}

**References**

*Limiting references*

*This place does not cover:*

| In combination with changing the section of the line | A61M 1/0043 |

**A61M 1/0049**

{Means preventing overflow or contamination of the pumping systems (combined with rigid drainage containers A61M 1/0001)}

**References**

*Informative references*

Attention is drawn to the following places, which may be of interest for search:

| Combined with rigid drainage containers | A61M 1/0001 |

**A61M 1/0056**

{Filters for solid matter (similar devices for dental use A61C 17/065)}

**References**

*Informative references*

Attention is drawn to the following places, which may be of interest for search:

| For dental use | A61C 17/065 |
A61M 1/0058

{Suction-irrigation systems (aspiration tips supplying fluids A61M 1/0084; combined with tracheal tubes A61M 16/0463)}

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Suction irrigation systems</th>
<th>A61M 1/0084</th>
</tr>
</thead>
<tbody>
<tr>
<td>Combined with tracheal tubes</td>
<td>A61M 16/0463</td>
</tr>
<tr>
<td>In endoscopes</td>
<td>A61B 1/12</td>
</tr>
<tr>
<td>Dental</td>
<td>A61C 17/0208</td>
</tr>
</tbody>
</table>

A61M 1/0062

{operating alternately (A61M 1/0064 takes precedence)}

Definition statement

This place covers:

Suction irrigation systems with suction and irrigation being operated alternately

References

Limiting references

This place does not cover:

<table>
<thead>
<tr>
<th>Handpieces</th>
<th>A61M 1/0064</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single needle systems</td>
<td>A61M 1/30</td>
</tr>
</tbody>
</table>

A61M 1/0064

{Handpieces therefor}

Definition statement

This place covers:

Handpieces for suction-irrigation systems, these being the proximal part of the device which the surgeon holds in his hand to perform suction-irrigation e.g. for controlling suction and/or irrigation

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Irrigators with suction means</th>
<th>A61M 3/0283</th>
</tr>
</thead>
</table>
A61M 1/0066

{Suction pumps (A61M 1/0003, A61M 1/0011, A61M 1/0023, A61M 1/10 take precedence)}

Definition statement

This place covers:
suction pumps for medical purposes except for the groups mentioned as taking precedence and where the pump mechanism is described in detail

References

Limiting references

This place does not cover:

| Self-contained vacuum aspirators                  | A61M 1/0003 |
| Drainage containers incorporating a flexible member creating suction | A61M 1/0011 |
| Suction drainage systems                          | A61M 1/0023 |
| Blood pumps                                       | A61M 1/10   |

A61M 1/0074

{by vacuum created above a liquid flowing from a closed container}

Definition statement

This place covers:
Suction pumps where the vacuum is created above a liquid flowing from a closed container, e.g. pumps for pleural drainage

A61M 1/0076

{using Laval or Venturi jet pumps}

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Similar devices in ventilators                    | A61M 16/0012 |

A61M 1/0078

{Tube strippers, i.e. for clearing the contents of the tubes (vein strippers A61B 17/00008)}

Definition statement

This place covers:
Tube strippers, which are tools used for removing fluid from medical tubes
References

Limiting references

This place does not cover:

Vein strippers

A61M 1/008

{Drainage tubes; Aspiration tips}

Definition statement

This place covers:

Drainage tubes and aspiration tips which are related to described suction means

References

Limiting references

This place does not cover:

Wound drainage tubes without described suction means

A61M 27/00

Informative references

Attention is drawn to the following places, which may be of interest for search:

Cupping glasses

A61M 1/08

Combined with tracheal tubes

A61M 16/0463

Surgical middle ear drainage

A61F 11/002

Special rules of classification

This is a subgroup to the group A61M 1/00; if no suction is involved then the documents are not for A61M 1/008 either. However, this group is for documents where details of the drainage tubes or aspiration tips are described, even if no details of the suction are given.

A61M 1/0084

{With gas or fluid supply means, e.g. for supplying rinsing fluids, anticoagulants (for irrigation without suction A61M 3/0279; combined with tracheal tubes A61M 16/0463; dental instruments with combined rinsing and aspirating A61C 17/0208)}

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

For irrigation without suction

A61M 3/0279

Double lumen needles

A61M 5/1582

Combined with endotracheal tubes

A61M 16/0463

Multi lumen catheters

A61M 25/0026
A61M 1/0088

{with a seal, e.g. to stick around a wound for isolating the treatment area}

Definition statement

This place covers:
Drainage tubes and aspiration tips where a seal isolates the treatment area such as in negative pressure wound treatment devices

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Description</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wound drain tubes</td>
<td>A61M 27/00</td>
</tr>
<tr>
<td>Absorbent bandages or dressings</td>
<td>A61F 13/00</td>
</tr>
<tr>
<td>Absorbent bandages or dressings with possibility of applying fluid</td>
<td>A61F 2013/0017</td>
</tr>
<tr>
<td>Absorbent bandages or dressings with possibility of applying fluid and pressure</td>
<td>A61F 2013/00174</td>
</tr>
</tbody>
</table>

A61M 1/02

Blood transfusion apparatus (blood infusion by syringes A61M 5/14)

Definition statement

This place covers:
Apparatus for blood transfusion, for blood collection in view of transfusion and for treatment of collected blood in view of later transfusion

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Description</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blood infusion by syringes</td>
<td>A61M 5/14</td>
</tr>
</tbody>
</table>

Special rules of classification

Either collection of blood in amounts interesting for transfusion (taking a sample for diagnosis would not fall under this) or treatment of collected blood in view of later transfusion is required for classification in this group.
A61M 1/0209

{Multiple bag systems for separating or storing blood components}

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Details of blood bags

A61J 1/10

A61M 1/024

{Means for controlling the quantity of transfused blood, e.g. by weighing the container and automatic stopping of the transfusion after reaching a determined amount}

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Containers with means for emptying the container with or without interrupting suction

A61M 1/0005

A61M 1/0245

{combined with blood container shaking means}

Definition statement

This place covers:
Means for controlling the quantity of transfused blood combined with blood container shaking means

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Means for agitating or shaking blood containers not in combination with means for controlling the quantity of blood

A61M 1/025

A61M 1/025

{Means for agitating or shaking blood containers (A61M 1/0245 takes precedence; shaking in general B01F 11/00)}

References

Limiting references

This place does not cover:

Combined with blood container shaking means

A61M 1/0245
Informative references
Attention is drawn to the following places, which may be of interest for search:

| Shaking in general                                      | B01F 11/00 |

A61M 1/0259
{Apparatus for treatment of blood or blood constituents not otherwise provided for (for agitating A61M 1/025; for separating blood components present in distinct layers in a container A61M 1/029)}

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

| For agitating                                      | A61M 1/025 |
| For separating blood components present in distinct layers in a container | A61M 1/029 |

A61M 1/0272
{Apparatus for treatment of blood or blood constituents prior to or for conservation, e.g. freezing, drying or centrifuging}

Definition statement
This place covers:
Treatment of blood, after collection from a donor, for the purpose of being conserved.

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

| Prior to transfusion                                 | A61M 1/0281 |

A61M 1/0281
{Apparatus for treatment of blood or blood constituents prior to transfusion, e.g. washing, filtering or thawing}

Definition statement
This place covers:
Treatment of blood for the purpose of being introduced into a patient.

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

| Prior to or for conservation                         | A61M 1/0272 |
A61M 1/029
{Separating blood components present in distinct layers in a container, not otherwise provided for (containers for storing blood or blood components A61J 1/05; sampling or analysing blood by separating blood components G01N 33/491)}

Definition statement
This place covers:
Separating stratified blood components.

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

| Containers for storing blood or blood components | A61J 1/10 |
| Sampling or analysing blood by separating blood components | G01N 33/491 |

A61M 1/04
{Artificial} pneumothorax apparatus

Definition statement
This place covers:
Devices for treating pneumothorax (i.e. abnormal collection of gas in the pleural space) and devices for creating and treating a pneumostoma

A61M 1/06
Milking pumps (feeding-bottles A61J 9/00)

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

| Brassieres | A41C 3/00 |
| Feeding bottles | A61J 9/00 |
| Teats | A61J 11/00 |
| Breast shields | A61J 13/00 |
**A61M 1/08**

**Cupping glasses**

**Definition statement**

*This place covers:*

The traditional cupping glasses, used in cupping therapy where a partial vacuum is created in cups placed on the skin either by means of heat or suction; the group contains also some similar devices which are used as poison extractors

**References**

**Informative references**

Attention is drawn to the following places, which may be of interest for search:

| Suction massage | A61H 9/005 |

**Special rules of classification**

| Rigid cups having pumping shut-off valves are coded with | A61M 1/0003 |

**A61M 1/10**

**Blood pumps; Artificial hearts; Devices for mechanical circulatory assistance, e.g. intra-aortic balloon pumps (artificial heart valves A61F 2/24; heart stimulation A61H 31/00)**

**References**

**Limiting references**

This place does not cover:

| Constructive details of valves therefor | A61F 2/24 |
| Heart stimulation | A61H 31/00 |

**A61M 1/101**

{Non-positive displacement pumps, e.g. impeller, centrifugal, vane pumps}

**References**

**Informative references**

Attention is drawn to the following places, which may be of interest for search:

| Electric motors | H02K |
A61M 1/1037
{Pumps having flexible elements, e.g. with membranes, diaphragms, or bladder pumps (Moving membranes in blood filters used for pumping A61M 1/267)}

References

Limiting references
This place does not cover:

Moving membranes in blood filters used for pumping  A61M 1/267

Informative references
Attention is drawn to the following places, which may be of interest for search:

Constructive details of valves therefor  A61F 2/24

A61M 1/1046
{Drive systems therefor, e.g. mechanically, electromechanically or skeletal muscle drive means}

Definition statement
This place covers:
Drive systems therefor, e.g. mechanically, electromechanically or skeletal muscle drive means.

A61M 1/1053
{using non-rotary electrical means}

Definition statement
This place covers:
Drive systems therefor using non-rotary electrical means e.g. electromagnetic means, magnetostrictive means, thermo-electric-means, piezoelectric means

A61M 1/1067
{using a blood vessel as flexible element (not used, see subgroups)}

Definition statement
This place covers:
Pumps using a blood vessel as flexible element even if the blood vessel is a prosthesis

A61M 1/1068
{using the heart as flexible element}

Definition statement
This place covers:
Pumps using the heart wall as a flexible element, i.e. by acting directly on the heart wall, e.g. by enveloping the heart
References

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Bags, strips or bands to improve the function of the heart muscle | A61F 2/2481 |

A61M 1/107

{Pulsating membrane pumps without valves, e.g. for counter pulsation, extra-arterial balloon pumps}

Definition statement

This place covers:

Pulsating membrane pumps without valves, e.g. for counter pulsation, extra-arterial balloon pumps

A61M 1/1072

{Intra-arterial balloon pumps, e.g. intra-aortic (intravascular pumps A61M 1/125)}

References

Limiting references

This place does not cover:

| Other intravascular pumps | A61M 1/125 |

A61M 1/1086

{Regulating or controlling systems therefor}

Definition statement

This place covers:

Electronical or mechanical regulation or controlling systems for any type of blood pumps

A61M 1/12

Implantable into the body {not used, see subgroups}

References

Limiting references

This place does not cover:

| Membrane pumps using a blood vessel as flexible element | A61M 1/1067 |
| Intravascular balloon pumps | A61M 1/1072 |
A61M 1/127

{Energy supply devices, converters therefor}

**Definition statement**

*This place covers:*

Energy supply devices and converters therefor for all types of blood pumps

**References**

**Informative references**

Attention is drawn to the following places, which may be of interest for search:

| Telemetry, communication with implanted devices | A61M 2205/3507 |

A61M 1/14

Dialysis systems; Artificial kidneys; Blood oxygenators; {Reciprocating systems for treatment of body fluids, e.g. single needle systems for haemofiltration, pheres (haemofiltration using non reciprocating systems A61M 1/34; extracorporeal blood circuit aspects A61M 1/36)); (processes of separation using semi-permeable membranes B01D 61/00; semi-permeable membranes characterised by the material, manufacturing processes therefor B01D 71/00)

**References**

**Informative references**

Attention is drawn to the following places, which may be of interest for search:

| Peritoneal dialysis catheters | A61M 1/285 |
| Haemofiltration using non reciprocating systems | A61M 1/34 |
| Extracorporeal blood circuit aspects | A61M 1/36 |
| Processes of separation using semi-permeable membranes | B01D 61/00 |
| Semi-permeable membranes characterized by the material, manufacturing processes therefor | B01D 71/00 |

A61M 1/16

with membranes {((A61M 1/30 takes precedence; membranes per se B01D 69/00, B01D 71/00))}

**Definition statement**

*This place covers:*

Dialysis systems, artificial kidneys and blood oxygenators where treatment involves a semi-permeable membrane separating blood from dialysate in a dialyser and separating blood from oxygen in an oxygenator
References

Limiting references

This place does not cover:

<table>
<thead>
<tr>
<th>Topic</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single-needle systems</td>
<td>A61M 1/30</td>
</tr>
</tbody>
</table>

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Topic</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blood circuits thereof</td>
<td>A61M 1/3621</td>
</tr>
<tr>
<td>Membranes per se</td>
<td>B01D 69/00</td>
</tr>
<tr>
<td>Materials and manufacturing or membranes</td>
<td>B01D 71/00</td>
</tr>
</tbody>
</table>

A61M 1/1654

{Dialysates therefor}

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Topic</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical formulae of dialysates</td>
<td>A61K 31/00</td>
</tr>
<tr>
<td>Medicinal preparation containing inorganic ingredients</td>
<td>A61K 33/00</td>
</tr>
<tr>
<td>Treating water for medical purposes</td>
<td>C02F 2103/026</td>
</tr>
</tbody>
</table>

A61M 1/1656

{Apparatus for preparing dialysates (with regeneration of dialysates A61M 1/1696)}

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Topic</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>With regeneration of dialysates</td>
<td>A61M 1/1696</td>
</tr>
</tbody>
</table>

A61M 1/1658

{Degasification (in general B01D 19/00)}

Definition statement

This place covers:

Degasification of dialysates
References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Degasification in general

A61M 1/1678

{intracorporal (A61M 1/28 and A61F 2/022 take precedence)}

Definition statement

This place covers:

Intracorporal (e.g. implanted) dialysis systems, artificial kidneys, blood oxygenators.

References

Limiting references

This place does not cover:

<table>
<thead>
<tr>
<th>Peritoneal dialysis</th>
<th>A61M 1/28</th>
</tr>
</thead>
<tbody>
<tr>
<td>Artificial glands</td>
<td>A61F 2/022</td>
</tr>
<tr>
<td>Implanted artificial glands using bioreactors</td>
<td>A61F 2/022</td>
</tr>
</tbody>
</table>

A61M 1/168

{Sterilisation or cleaning before or after use (sterilisation of materials in general A61L; cleaning or sterilisation of membrane modules apart from the machine B01D 65/02)}

Definition statement

This place covers:

Sterilisation or cleaning before or after use of the dialysis device, artificial kidneys or blood oxygenators, this can be both the dialysate or the blood side of the device and is not limited to self-cleaning.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Priming, rinsing blood circuits before or after use</th>
<th>A61M 1/3643</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sterilisation of materials in general</td>
<td>A61L 2/00</td>
</tr>
<tr>
<td>Cleaning or sterilisation of membrane modules apart from the machine</td>
<td>B01D 65/02</td>
</tr>
</tbody>
</table>
A61M 1/1686
{by heat}

Definition statement
This place covers:
Sterilization or cleaning by heat, e.g. by steam

A61M 1/169
{using chemical substances}

References

Limiting references
This place does not cover:

| Priming, rinsing blood circuits before or after use | A61M 1/3643 |

A61M 1/1692
{Detection of blood traces in dialysate (testing of the membrane modules B01D 65/10; investigating fluid-tightness of structures in general G01M 3/00)}

Definition statement
This place covers:
Dialysis systems where means are provided for detecting traces of blood in the dialysate, e.g. to detect the presence of a leak in the membrane

References

Limiting references
This place does not cover:

| Other testing of filters for leaks | A61M 2205/705 |

Informative references
Attention is drawn to the following places, which may be of interest for search:

| Testing the membrane modules | B01D 65/10 |
| Investigating fluid-tightness of structures in general | G01M 3/00 |

A61M 1/1694
{with recirculating dialysing liquid}

References

Informative references
Attention is drawn to the following places, which may be of interest for search:

| Peritoneal dialysis | A61M 1/28 |
A61M 1/1696
{with dialysate regeneration}

References

Informative references
Attention is drawn to the following places, which may be of interest for search:

| Substitution fluid using dialysate | A61M 1/3465 |

A61M 1/1698
{Blood oxygenators with or without heat-exchangers (A61M 1/1678 takes precedence; membranes therefor B01D 67/00, B01D 69/00, B01D 71/00)}

References

Limiting references
This place does not cover:

| Intracorporal oxygenators | A61M 1/1678 |

Informative references
Attention is drawn to the following places, which may be of interest for search:

| Manufacturing of membranes therefor | B01D 67/00 |
| Form or properties of membranes therefor | B01D 69/00 |
| Materials and manufacturing of membranes therefor | B01D 71/00 |

A61M 1/26
{and internal elements} which are moving

Definition statement
This place covers:
Dialysis systems, artificial kidneys and blood oxygenators which incorporate elements internal to the treatment module where the membrane is located which are moving (e.g. moving membranes)

Special rules of classification
Only used as an Indexing Code, documents are classified in B01D

A61M 1/28
Peritoneal dialysis {; Other peritoneal treatment, e.g. oxygenation}

Definition statement
This place covers:
contains also other peritoneal treatment, e.g. oxygenation
References

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Topic</th>
<th>Subclass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Irrigation systems</td>
<td>A61M 3/02</td>
</tr>
<tr>
<td>Sterile connections</td>
<td>A61M 39/10</td>
</tr>
<tr>
<td>Bags therefor</td>
<td>A61J 1/10</td>
</tr>
</tbody>
</table>

A61M 1/285

{Catheters therefor}

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Topic</th>
<th>Subclass</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sterile connections</td>
<td>A61M 39/10</td>
</tr>
</tbody>
</table>

A61M 1/287

{Dialysates therefor}

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Topic</th>
<th>Subclass</th>
</tr>
</thead>
<tbody>
<tr>
<td>For other dialysates</td>
<td>A61M 1/1654</td>
</tr>
<tr>
<td>Preparation of dialysates</td>
<td>A61M 1/1656</td>
</tr>
</tbody>
</table>

A61M 1/30

{Reciprocating systems, alternately withdrawing blood from and returning it to the patient, e.g. single-lumen-needle dialysis or single needle systems for haemofiltration, pheresis}

Definition statement

This place covers:
Reciprocating systems, alternately withdrawing blood from and returning it to the patient, e.g. single-lumen-needle dialysis or single needle systems for haemofiltration, pheresis

A61M 1/32

Oxygenators without membranes

Definition statement

This place covers:
Oxygenators without membranes e.g. bubble oxygenators
A61M 1/34
Filtering material out of the blood by passing it through a membrane, i.e. haemofiltration, diafiltration {\(A61M\ 1/30\) takes precedence; extracorporeal blood circuit aspects \(A61M\ 1/36\)}

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Single-needle systems</th>
<th>A61M 1/30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extracorporeal blood circuit aspects</td>
<td>A61M 1/36</td>
</tr>
</tbody>
</table>

A61M 1/3413
{Diafiltration}

Definition statement
This place covers:
Combined dialysis (i.e. using dialysate) and haemofiltration (i.e. with considerable amounts of ultrafiltrate requiring substitution).

A61M 1/342
{Adding solutions to the blood, e.g. substitution solutions (for preventing coagulation \(A61M\ 1/3672\))}

References
Limiting references
This place does not cover:

| For preventing coagulation                | A61M 1/3672 |

A61M 1/3441
{Substitution rate control as a function of the ultrafiltration rate}

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

| Weighing fresh and used dialysate         | A61M 1/1643 |
A61M 1/3455
{Substitution fluids}

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

Using dialysate as substitution fluid

A61M 1/3465

A61M 1/3462
{Circuits for the preparation thereof}

Definition statement
This place covers:
Fluidic circuits for the preparation of substitution fluids.

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

Using dialysate as substitution fluid

A61M 1/3465

Special rules of classification
The fact that the circuits are fluidic does not exclude that they may be electrically controlled.

A61M 1/3472
{with treatment of the filtrate}

Definition statement
This place covers:
Filtering material out of the blood by passing it through a membrane, i.e. haemofiltration, diafiltration, with treatment of the filtrate, e.g. by filtration, dialysis, absorption, chemical treatment, biological treatment, heating

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

| with treatment of the filtrate with treatment agent in the same enclosure as the membrane | A61M 1/3475 |
| with treatment of the filtrate by dialysing the filtrate | A61M 1/3479 |
| with treatment of the filtrate by filtrating the filtrate using another crossflow filter, e.g. a membrane filter | A61M 1/3482 |
| with biological or chemical treatment of the filtrate, e.g. chemical precipitation, treatment by absorbents | A61M 1/3486 |
with treatment of the filtrate by using treatment agents in suspension \text{n} A61M 1/3493

\textbf{A61M 1/3496}

{Plasmapheresis; Leucopheresis; Lymphopheresis (A61M 1/3472 takes precedence; single-needle processes A61M 1/30)}

\textbf{References}

\textit{Limiting references}

\textit{This place does not cover:}

| Treatment of the filtrate | A61M 1/3472 |

\textit{Informative references}

\textit{Attention is drawn to the following places, which may be of interest for search:}

| Single-needle processes | A61M 1/30 |

\textbf{A61M 1/36}

Other treatment of blood in a by-pass of the natural circulatory system, e.g. temperature adaptation, irradiation (\textit{; Extra-corporeal blood circuits})

\textbf{Definition statement}

\textit{This place covers:}

Other treatment of blood in a by-pass of the natural circulatory system, e.g. temperature adaptation, irradiation

\textbf{A61M 1/3621}

{Extra-corporeal blood circuits (single-needle circuits A61M 1/30)}

\textbf{Definition statement}

\textit{This place covers:}

Includes all blood circuits (e.g. also for dialysis, haemofiltration), single needle circuits excepted.

\textbf{References}

\textit{Limiting references}

\textit{This place does not cover:}

| Single-needle circuits | A61M 1/30 |
| Double lumen needles   | A61M 5/1582 |
| Multi lumen catheters  | A61M 25/0026 |
**A61M 1/3624**  
{Level detectors; Level control}  

**Definition statement**  
*This place covers:*  
Blood level detectors and blood level control.  

**References**  
*Informative references*  
Attention is drawn to the following places, which may be of interest for search:  

<table>
<thead>
<tr>
<th>Topic</th>
<th>CPC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring liquid level in infusion</td>
<td>A61M 5/1684</td>
</tr>
<tr>
<td>Optical liquid level detectors in general</td>
<td>G01F 23/292</td>
</tr>
<tr>
<td>Measuring liquid level in general</td>
<td>G01F 25/0061</td>
</tr>
</tbody>
</table>

**A61M 1/3626**  
{Gas bubble detectors (blood leak detection by change of transparency of dialysate A61M 1/1692; in infusion devices A61M 5/365; observing bubbles in a liquid pool for leak detection, in general G01M 3/06)}  

**References**  
*Informative references*  
Attention is drawn to the following places, which may be of interest for search:  

<table>
<thead>
<tr>
<th>Topic</th>
<th>CPC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blood leak detection by change of transparency of dialysate</td>
<td>A61M 1/1692</td>
</tr>
<tr>
<td>In infusion devices</td>
<td>A61M 5/365</td>
</tr>
<tr>
<td>Observing bubbles in a liquid pool for leak detection, in general</td>
<td>G01M 3/06</td>
</tr>
</tbody>
</table>

**A61M 1/3627**  
{Degassing devices; Buffer reservoirs; Drip chambers; Blood filters (priming A61M 1/3643; blood filters for infusion A61M 5/165)}  

**Definition statement**  
*This place covers:*  
Degassing devices, buffer reservoirs, drip chambers, blood filters, these devices can be isolated but often some of them are combined in one device  

**References**  
*Informative references*  
Attention is drawn to the following places, which may be of interest for search:  

<table>
<thead>
<tr>
<th>Topic</th>
<th>CPC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filters for solid matter in combination with suction devices</td>
<td>A61M 1/0056</td>
</tr>
<tr>
<td>Priming</td>
<td>A61M 1/3643</td>
</tr>
<tr>
<td>Blood filters for infusion</td>
<td>A61M 5/165</td>
</tr>
</tbody>
</table>
A61M 1/3633
{Blood component filters, e.g. leukocyte filters}

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Filters for lipoids</th>
<th>A61M 1/3627</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of blood component</td>
<td>A61M 2202/04</td>
</tr>
<tr>
<td>Filtering out liquids in general</td>
<td>B01D 39/00</td>
</tr>
</tbody>
</table>

A61M 1/3639
{Blood pressure control, pressure transducers specially adapted therefor}

Definition statement
This place covers:
Blood pressure control in the extracorporeal circuit of a blood treatment system and pressure transducers specially adapted therefor

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Control of inversion time between collection and reinfusion phase in single needle systems by pressure control</th>
<th>A61M 1/305</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blood pressure measurement on the patient</td>
<td>A61B 5/02</td>
</tr>
</tbody>
</table>

A61M 1/3643
{Priming, rinsing before or after use}

Definition statement
This place covers:
Priming, rinsing before or after use of the extracorporeal blood circuit

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Sterilizing the dialyser</th>
<th>A61M 1/168</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arrangements for blood volume reduction</td>
<td>A61M 1/3606</td>
</tr>
<tr>
<td>Rinsing for regenerating the filter</td>
<td>A61M 2205/7554</td>
</tr>
</tbody>
</table>
**A61M 1/3653**  
{Interfaces between patient blood circulation and extra-corporal blood circuit}

**Definition statement**

This place covers:

Interfaces between the blood circulation of the patient and the extra-corporal blood circuit, e.g. mechanical interfaces such as adapted catheters, needles, cannulas, or electrical interfaces, e.g. electrodes for monitoring proper connection of the patient to the blood circuit.

**References**

**Informative references**

Attention is drawn to the following places, which may be of interest for search:

| Catheter holding devices | A61M 25/02 |

**A61M 1/3655**  
{Arterio-venous shunts, fistulae}

**References**

**Informative references**

Attention is drawn to the following places, which may be of interest for search:

| Access sites | A61M 39/02 |

**A61M 1/3663**  
{Flow rate transducers; Flow integrators (measuring the flow in general G01F)}

**References**

**Informative references**

Attention is drawn to the following places, which may be of interest for search:

| Measuring flow in general | G01F |

**A61M 1/3664**  
{for preparing cardioplegia solutions}

**References**

**Informative references**

Attention is drawn to the following places, which may be of interest for search:

| Means for cooling | A61M 2205/3606 |
A61M 1/3666
{Cardiac or cardiopulmonary bypass, e.g. heart-lung machines}

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

| With assisted venous return | A61M 1/3667 |

A61M 1/3669
{Electrical impedance measurement of body fluids; transducers specially adapted therefor}

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Other measuring of impedance | A61M 2205/3317 |

A61M 1/367
{Circuit parts not covered by the preceding subgroups of group A61M 1/3621}

Definition statement

This place covers:
Circuit parts not covered by the preceding subgroups of group A61M 1/3621 e.g. connectors, sensors and valves

References

Limiting references

This place does not cover:

| Level detectors | A61M 1/3624 |
| Gas bubble detectors | A61M 1/3626 |
| Degassing devices | A61M 1/3627 |
| Blood pressure control | A61M 1/3639 |
| Priming | A61M 1/3643 |
| Interfaces | A61M 1/3653 |
| Flow rate Transducers | A61M 1/3663 |
| For cardioplegia | A61M 1/3664 |
| Cardiac bypass | A61M 1/3666 |
| Impedance measurement | A61M 1/3669 |
A61M 1/3672

{Means preventing coagulation (aspiration tips with anticoagulant delivery A61M 1/0084)}

Definition statement

This place covers:
Extra-corporeal blood circuits having means preventing coagulation of the blood, e.g. heparine infusion or anticoagulant coating or a geometrical configuration described as minimizing coagulation.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Aspiration tips with anticoagulant delivery | A61M 1/0084 |

A61M 1/3675

{Deactivation}

Definition statement

This place covers:
Extra-corporeal blood circuits having means (e.g. chemical, in the blood) preventing coagulation of the blood, which means are thereafter deactivated (e.g. removed or neutralized so as not to compromise the health of the patient).

Synonyms and Keywords

In patent documents, the following words/expressions are often used as synonyms:
• "heparin", "ACD", "citrate" and "liquemine"

A61M 1/3679

{by absorption (A61M 1/3675 takes precedence)}

Definition statement

This place covers:
Extra-corporeal blood circuits whereby the blood is treated by absorption (the absorption of anticoagulants being classified in A61M 1/3675).

References

Limiting references

This place does not cover:

| Deactivation of means preventing coagulation | A61M 1/3675 |

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Related fluid circuits | A61M 1/3621 |
Special rules of classification

Distinction between absorption and chemical treatment not always easy, therefore see also

A61M 1/3679 (continued)

A61M 1/3681
{by irradiation}

Definition statement

This place covers:
Extra-corporeal blood circuits in which the blood is treated by irradiation of any wavelength

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Sterilization by irradiation in general

A61L

A61M 1/3687
{Chemical treatment (A61M 1/3675 takes precedence)}

Definition statement

This place covers:
Extra-corporeal blood circuits in which the blood is treated by chemical means

References

Limiting references

This place does not cover:

Related fluid circuits

A61M 1/3621

Deactivation of means preventing coagulation

A61M 1/3675

Special rules of classification

Distinction between absorption and chemical treatment not always easy, therefore see also

A61M 1/3679

A61M 1/369

{Temperature treatment (heating or cooling infusion media A61M 5/44)}

Definition statement

This place covers:
Hypo- and hyperthermia devices; not intended for preservation nor for adapting to body temperature, but for treatments with intended irreversible results
References

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Heating or cooling devices for bringing media into the body or the media | A61M 5/44 |
| Hypothermia | A61M 19/00 |
| Heating or cooling the body for treatment | A61F 7/00 |

A61M 1/369

(using separation based on different densities of components, e.g. centrifuging)

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Multiple bag systems therefor | A61M 1/0209 |
| Rotating membrane filtering | A61M 1/262 |
| Centrifuges in general | B04B 5/00 |

A61M 1/38

Removing constituents from donor blood and {storing or} returning remainder to body {, e.g. for transfusion}

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Blood transfusion apparatus | A61M 1/02 |

A61M 3/00

Medical syringes, e.g. enemata; Irrigators (A61M 5/00 takes precedence; pistons A61M 5/315)

Definition statement

This place covers:
Medical syringes used for irrigation, e.g. enemata as well as medical irrigators.

Relationships with other classification places

Irrigation systems when combined with suction means classified in A61M 3/00 if the focus of the invention information is on irrigation and in A61M 1/0058 if the focus is on suction. In both cases an additional classification information in the other field may be given.
References

Limiting references

This place does not cover:

| Devices for bringing media into the body in a subcutaneous, intra-vascular or intramuscular way, e.g. syringes, needles | A61M 5/00 |
| Pistons | A61M 5/315 |
| Catheters | A61M 25/00 |
| Dilators | A61M 29/00 |

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Suction-irrigation systems | A61M 1/0058 |
| Drainage tubes with fluid supply means | A61M 1/0084 |
| Pistons in syringes for use in subcutaneous, intra-vascular or intramuscular way | A61M 5/315 |
| Introducing media into body cavities | A61M 31/00 |
| For colostomy | A61F 5/442 |
| Ophthalmic surgery | A61F 9/007 |
| Baths | A61H 35/00 |
| Eye baths | A61H 35/02 |
| Nose baths | A61H 35/04 |

Special rules of classification

The breakdown symbols (i.e. the non "parallel" or non "mirror" symbols) and "orthogonal" symbols are to be used for classifying the invention information (in addition to the invention symbols) in case the invention is insufficiently classified by an invention information symbol. They are also to be used for classifying the additional information. They are stored in the additional information field. The "orthogonal" Indexing Codes scheme is also used.

Further details of subgroups

Characteristics of the fluid: A61M 3/0204

Before use: A61M 3/0208

After use: A61M 3/0212

Pressure: A61M 3/0216

Volume; flow rate: A61M 3/022

Catheter holding devices see A61M 25/02

A61M 3/0279

Colostomy with irrigation port see A61F 5/442

A61M 3/0283
This group does not cover devices whose main object is suctioning and which moreover have irrigation means, these are classified in A61M 1/0084

A61M 3/0287

spraying on the skin: A61H 9/0028

surgical drapes with drain fluid collection means A61B 2046/236

splash shields for protection of the surgeon: A61B 90/05

glossary: splash shield

A61M 3/06

bidets in general see E03D 9/08

A61M 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 (vaccination appliances for veterinary use A61D 1/025); 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; (combinations of vial and syringe for mixing or transferring their contents A61J 1/20; holders for containers for collecting, storing or administering blood or medical fluids A61J 1/16)

Definition statement

This place covers:

Infusion devices (infusion by gravity, infusion pumps, infusion needles, flow control etc.), syringes and details therefrom (automatic syringes, ampoules syringes, syringe cartridges, pistons, needles), means for preventing injection of air in body, means for desensitising skin, means for cooling or heating media to be infused, means for controlling depth of insertion.

References

Limiting references

This place does not cover:

<table>
<thead>
<tr>
<th>Suction devices for medical purposes, blood pumps, blood filters…</th>
<th>A61M 1/00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catheters</td>
<td>A61M 25/00</td>
</tr>
<tr>
<td>Devices for transducing body media or for taking media from the body</td>
<td>A61B 5/00, A61B 5/15</td>
</tr>
<tr>
<td>Introducing media into/onto bodies of animals</td>
<td>A61D 7/00</td>
</tr>
<tr>
<td>Implantable gland structures or devices, e.g. implantable artificial pancreas</td>
<td>A61F 2/022</td>
</tr>
<tr>
<td>Containers for medicinal or pharmaceutical purposes</td>
<td>A61J 1/00</td>
</tr>
<tr>
<td>Medicinal preparations</td>
<td>A61K 35/00</td>
</tr>
<tr>
<td>In vitro human cell grow apparatus</td>
<td>C12M 3/00</td>
</tr>
</tbody>
</table>
Informative references
Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Topic</th>
<th>CPC code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blood transfusion</td>
<td>A61M 1/02</td>
</tr>
<tr>
<td>Means for agitating</td>
<td>A61M 1/025</td>
</tr>
<tr>
<td>Blood oxygenators</td>
<td>A61M 1/14</td>
</tr>
<tr>
<td>Hemofiltration equipment</td>
<td>A61M 1/34</td>
</tr>
<tr>
<td>Blood filters</td>
<td>A61M 1/34, A61M 1/36</td>
</tr>
<tr>
<td>Non-implantable gland structures or devices, e.g. non-implantable artificial pancreas</td>
<td>A61M 1/3489, A61M 1/3679, A61M 1/3689</td>
</tr>
<tr>
<td>Temperature treatment for blood</td>
<td>A61M 1/369</td>
</tr>
<tr>
<td>Infusion devices using feedback of body parameters, e.g. blood-sugar, pressure, artificial pancreas</td>
<td>A61M 5/1723</td>
</tr>
<tr>
<td>Pressure measurement lumen</td>
<td>A61M 2025/0003</td>
</tr>
<tr>
<td>Connecting catheter tubes to hubs</td>
<td>A61M 25/0014</td>
</tr>
<tr>
<td>Guide needles for catheters</td>
<td>A61M 25/065</td>
</tr>
<tr>
<td>Diffusion through the skin</td>
<td>A61M 35/00</td>
</tr>
<tr>
<td>Microneedles</td>
<td>A61M 37/00</td>
</tr>
<tr>
<td>Access sites</td>
<td>A61M 39/02</td>
</tr>
<tr>
<td>Detecting tissue temperature for diagnostic purposes</td>
<td>A61M 39/0247</td>
</tr>
<tr>
<td>Y-connectors</td>
<td>A61M 39/10</td>
</tr>
<tr>
<td>Measuring of body parameters</td>
<td>A61B 5/00</td>
</tr>
<tr>
<td>Syringes for taking blood samples</td>
<td>A61B 5/14</td>
</tr>
<tr>
<td>Surgical glue applicators</td>
<td>A61B 17/00491</td>
</tr>
<tr>
<td>Syringes for injecting impression materials</td>
<td>A61C 9/0026</td>
</tr>
<tr>
<td>Ampoules or carpules</td>
<td>A61J 1/06</td>
</tr>
<tr>
<td>Combination of vial and syringe for mixing or transferring their contents</td>
<td>A61J 1/2096</td>
</tr>
<tr>
<td>Making filter elements</td>
<td>B01D 29/111</td>
</tr>
<tr>
<td>Burettes, measuring cylinders for laboratory use</td>
<td>B01L 3/02</td>
</tr>
<tr>
<td>Heating or cooling in general</td>
<td>B01L 7/00</td>
</tr>
<tr>
<td>Disintegrating medical waste</td>
<td>B02C 19/0075</td>
</tr>
<tr>
<td>Disposal of medical waste in general</td>
<td>B09B 3/0075</td>
</tr>
<tr>
<td>Making of hollow needles</td>
<td>B21G 1/08</td>
</tr>
<tr>
<td>Grinding sharp-pointed work pieces</td>
<td>B24B 19/16</td>
</tr>
<tr>
<td>Filling of medical containers in general</td>
<td>B65B 3/003, A61J 1/20</td>
</tr>
<tr>
<td>Pressurized by contraction of elastic reservoir, in general</td>
<td>B65D 83/0061</td>
</tr>
<tr>
<td>Receptacles for refuse disposal in general</td>
<td>B65F 1/00</td>
</tr>
<tr>
<td>Cell injection devices</td>
<td>C12M 3/006</td>
</tr>
<tr>
<td>Linear peristaltic pumps, in general</td>
<td>F04B 43/12</td>
</tr>
<tr>
<td>Telescopic rods</td>
<td>F16B 7/10</td>
</tr>
</tbody>
</table>
Valves in general  F16K
Heat exchange in general  F28C, F28D, F28F, F28G
Hypodermic projectiles  F42B 12/54
Apparatus of the syringe type  G01F 11/027
Indicating or measuring liquid levels  G01F 23/292
Systems or apparatus for checking the occurrence of a condition  G07C 11/00
Holders comprising label  G09F 3/0295
ICT specially adapted for therapies or health-improving plans (e.g. for handling prescriptions, for steering therapy or for monitoring patient compliance) relating to drugs or medications (e.g. for ensuring correct administration to patients)  G16H 20/10
Holders for storage of radioactive sources  G21F 5/018
Heating by electric fields  H05B 6/80

Special rules of classification

The classification of "additional information" in the group is mandatory, but only if the additional information has some importance.

For example, the main invention is an infusion pump of the reciprocating piston type (A61M 5/14216), but a regulating valve (A61M 5/16881) is present in the device. If the valve is just mentioned as being a general valve with no specific details given on how the valve relates to the pump, then it is not worth giving a class in the field of valves. On the contrary, if the valve is well described and presents some interesting features that cooperates with features from the pump, then the document should also be classified in the field of regulating valves.

In A61B 8/0891, the blood vessel is analysed for diagnosis purpose using ultrasonic, sonic, or infrasonic waves. All couplings and connectors are classified in A61M 39/00.

Further details of subgroups

A61M 5/007
Delivery of contrast media

A61M 5/14
This subgroup also comprises various accessories for infusing by gravity, like drip chambers or hanging up devices (see relevant sub-classes).

A61M 5/142
Most subdivisions in this subgroup mainly describe the way in which the infusion pump works (peristaltic pump, roller pump, impeller pump…).

Other subdivisions however also relates to the fact that the pump is portable or implantable.

A61M 5/158 and A61M 5/162
These two subgroups contain general information on infusion needles. The details of said needles can be found in A61M 5/32 and A61M 5/34.

A61M 5/165
Blood filters are now found in A61M 1/34 and A61M 1/36.
A61M 5/168
This subgroup contains flow controllers (regulating the flow of media), but also means for sensing or detecting flow anomalies.

Many different kind of syringes can be found in these sub groups. The automatic syringes (a certain action on a trigger will start the automatic injection of the media, no further action being required from the user) are found in A61M 5/20, A61M 5/24 and A61M 5/28 regroups the ampoules syringes. In A61M 5/24 the syringe bears the needle, in A61M 5/28 the needle is present on the ampoule.

A61M 5/30 relates to syringes for injection by jet action, also know as needleless syringes.

More syringes can also be found in other fields (A61J 1/00-A61J 1/22, A61B 5/14, A61B 17/00-A61B 17/921). A61M 5/31 and A61M 5/315 general details of syringes (caps, constructional features, priming, valves, plugs, filling, etc.) can be found in the subgroup A61M 5/31.

The subgroup A61M 5/315 relates to detail of the piston (construction, blocking means, etc.), but also to dosing mechanisms (gears, electrical parts, axial movements, rotational movements) and other dosing-related subjects (feedback, keeping track of administered doses, etc.).

A61M 5/32
This subgroup deals with details of needles, and especially with ways to protect the user from the needle (needle caps, apparatus for removing or destroying needles, semi- or fully-automatic retractable needles, semi- or fully-automatic needle sleeves for protecting the needle, etc.).

A61M 5/427
In the blood vessel is located prior to an injection (treatment).

A61M 5/44
This subgroup deals with means for cooling or heating the device (pump, syringe, etc.) or the media contained in the device (infusate, medicine, etc.).

A61M 5/50
Often forgotten, this group useful group deals with means for preventing re-use, or also for indicating if the device has already been used or tampered with.

A61M 9/00
Baths for subaquatic intestinal cleaning

Relationships with other classification places
Baths are also classified in A61H 35/00 and A61H 33/00

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Irrigators</th>
<th>A61M 3/00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bathing devices for special therapeutic or hygienic purpose</td>
<td>A61H 33/00</td>
</tr>
<tr>
<td>Baths</td>
<td>A61H 35/00</td>
</tr>
</tbody>
</table>
A61M 11/00
Sprayers or atomisers specially adapted for therapeutic purposes (in general B05B; {aerosol containers B65D 83/14})

Definition statement
This place covers:
Sprayers or atomisers of liquid, e.g. medication, water for humidification

References
Limiting references
This place does not cover:
Device to humidify the respiration air A61M 16/16

Informative references
Attention is drawn to the following places, which may be of interest for search:
<table>
<thead>
<tr>
<th>Irrigator</th>
<th>A61M 3/00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spraying onto the body</td>
<td>A61M 35/00</td>
</tr>
<tr>
<td>Bath for the nose</td>
<td>A61H 35/04</td>
</tr>
<tr>
<td>Sprayers or atomisers specially adapted for therapeutic purposes in general</td>
<td>B05B</td>
</tr>
<tr>
<td>Aerosol container</td>
<td>B65D 83/14</td>
</tr>
</tbody>
</table>

Special rules of classification
Also contains nebulizers.

The "subdivision" Indexing Code symbols (i.e. the non "parallel" Indexing Code symbols) are used for classifying as well the invention information as the additional information. They are stored only in the additional information field". The "orthogonal" Indexing Code symbols are also used.

A61M 11/005
{using ultrasonics (spraying or atomising liquids using ultrasonic vibrations in general B05B 17/06)}

References
Informative references
Attention is drawn to the following places, which may be of interest for search:
<table>
<thead>
<tr>
<th>Inhalators using ultrasonic</th>
<th>A61M 15/0085</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spraying or atomising liquids using ultrasonic vibrations in general</td>
<td>B05B 17/06</td>
</tr>
</tbody>
</table>
A61M 11/02
operated by air (or other gas) pressure applied to the liquid (or other product) to be sprayed or atomised {sprayers for horticulture A01G, A01H; killing insects A01M; air humidifying by nozzles F24F 6/14, F24F 6/18; cooling by spraying F28B, F28C)}

Definition statement
This place covers:
Devices with positive air pressure.

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Sprayers for horticulture</th>
<th>A01G, A01H</th>
</tr>
</thead>
<tbody>
<tr>
<td>Killing insects</td>
<td>A01M</td>
</tr>
<tr>
<td>Air disinfection</td>
<td>A61L 9/03</td>
</tr>
<tr>
<td>Atomizer for painting</td>
<td>B05B</td>
</tr>
<tr>
<td>Adding O2, perfume to air</td>
<td>B60H 3/0007</td>
</tr>
<tr>
<td>Air humidifying by nozzles</td>
<td>F24F 6/14, F24F 6/18</td>
</tr>
<tr>
<td>Cooling by spraying</td>
<td>F28B, F28C</td>
</tr>
</tbody>
</table>

Special rules of classification
The positive air pressure be created by any means (i.e., piston, pre-pressurized canister with propellant, etc.)

A61M 11/04
operated by the vapour pressure of the liquid to be sprayed or atomised {(air-humidification, e.g. "room humidifiers" F24F 6/00)}

Definition statement
This place covers:
Electrical heated vaporiser, e.g. devices in which the vapor pressure of the liquid acting in a confined space is used to propel the liquid through an orifice to spray or atomize the liquid.

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Humidifiers</th>
<th>A61M 16/16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air-humidification, e.g. &quot;room humidifiers&quot;</td>
<td>F24F 6/00</td>
</tr>
<tr>
<td>Electrical heated vaporizers</td>
<td>F24H 1/00</td>
</tr>
</tbody>
</table>
A61M 11/041
{using heaters}

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

| Heating the liquid | A61M 16/109 |

Special rules of classification
Heater vaporizes the liquid or acts on liquid in confined space to increase vapour pressure.

A61M 11/06
of the injector type

Definition statement
This place covers:
Devices with a venturi system, i.e. non pocket size.

References
Limiting references
This place does not cover:

| Pocket atomiser | A61M 11/08 |

Informative references
Attention is drawn to the following places, which may be of interest for search:

| Operated by air | A61M 11/02 |
| Spraying apparatus | B05B 7/0012 |
| Single unit with follower | B05B 11/02 |

A61M 11/08
Pocket atomisers of the injector type {(aerosol cans A61M 15/009)}

Definition statement
This place covers:
Devices with a venturi system, i.e. pocket size.

References
Limiting references
This place does not cover:

| Injector type, i.e. non pocket | A61M 11/06 |
Informative references
Attention is drawn to the following places, which may be of interest for search:

| Aerosol cans | A61M 15/009 |

A61M 13/00

Insufflators for therapeutic or disinfectant purposes {, i.e. devices for blowing a gas, powder or vapour into the body (hand-held units in which gas flow is produced by muscular energy at the moment of use B05B 11/062)}

Definition statement

This place covers:

Devices to inflate a cavity for easy access.

References

Informative references
Attention is drawn to the following places, which may be of interest for search:

| Hand-held units in which gas flow is produced by muscular energy at the moment of use | B05B 11/062 |

Special rules of classification

The "subdivision" Indexing Code symbols (i.e. the non "parallel" Indexing Code symbols) are used for classifying as well the invention information as the additional information. They are stored only in the additional information field"

The "orthogonal" Indexing Code symbols are also used.

A61M 13/003

{Blowing gases other than for carrying powders, e.g. for inflating, dilating or rinsing)

References

Informative references
Attention is drawn to the following places, which may be of interest for search:

| For the destruction of noxious animals or noxious plants | A01M |
| Instrument for medical examination | A61B 1/00 |
| Insufflating needles therefor | A61B 17/3474 |
A61M 15/00
Inhalators {drug delivery in endotracheal tubes A61M 16/04}

Definition statement
This place covers:
Devices or processes specially adapted to be used to insert or place media into human bodies by
enhancing a naturally occurring method other than oral.

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

| Drug delivery in endotracheal tubes                         | A61M 16/04 |
| For animals                                                 | A61D 7/04  |
| Medicinal preparation for inhaling                          | A61K 9/0073|

Special rules of classification
The "subdivision" Indexing Code symbols (i.e. the non "parallel" Indexing Code symbols) are used for
classifying as well the invention information as the additional information. They are stored only in the
additional information field"

The "orthogonal" Indexing Code symbols are also used.

A61M 15/0028
{using prepacked dosages, one for each application, e.g. capsules to be
perforated or broken-up}

Definition statement
This place covers:
Inhalators with unit dose with manual feeding, e.g. the single dose is inserted manually in the inhaler.

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

| Injector type                                               | A61M 11/06 |
| Single unit with follower                                   | B05B 11/02 |

A61M 15/0045
{using multiple prepacked dosages on a same carrier, e.g. blisters}

Definition statement
This place covers:
An inhaler/inhalator that accepts a package containing plural dosages of inhalant, e.g. multi-unit dose,
with automatic feeding
A61M 15/0065

{Inhalators with dosage or measuring devices (A61M 15/0028 takes precedence; dosage devices incorporated in aerosol cans B65D 83/52)}

Definition statement

This place covers:
Inhalators with multi-dose reservoir, i.e. without capsule or blister

References

Limiting references

This place does not cover:

Using prepacked dosages

A61M 15/0028

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>With aerosol and not described dosing</th>
<th>A61M 15/009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Details of the spray nozzle</td>
<td>B05B</td>
</tr>
<tr>
<td>Dosage devices incorporated in aerosol cans</td>
<td>B65D 83/52</td>
</tr>
</tbody>
</table>

A61M 15/0085

{using ultrasonics (spraying or atomising liquids using ultrasonic vibrations in general B05B 17/06)}

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Sprayers using ultrasonic</th>
<th>A61M 11/005</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spraying or atomising liquids using ultrasonic vibrations in general</td>
<td>B05B 17/06</td>
</tr>
</tbody>
</table>

A61M 15/0086

{Inhalation chambers}

Definition statement

This place covers:
Inhalators with spacers
**A61M 15/009**

(using medicine packages with incorporated spraying means, e.g. aerosol cans (pocket atomiser of the injector type A61M 11/08))

**Definition statement**

*This place covers:*

Inhalators having a pressurized container, e.g. Metered Dose Inhaler (MDI). A sufficient structure to generate the spray is part of a package that is introduced into the inhalator and subsequently removed for disposal.

**References**

*Informative references*

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Topic</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pocket atomiser of the injector type</td>
<td>A61M 11/08</td>
</tr>
<tr>
<td>Dosing</td>
<td>A61M 15/0065</td>
</tr>
<tr>
<td>Details of the spray nozzle</td>
<td>B05B</td>
</tr>
<tr>
<td>Aerosol container</td>
<td>B65D 83/14</td>
</tr>
</tbody>
</table>

**A61M 15/0091**

(mechanically breath-triggered)

**References**

*Informative references*

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Topic</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation valve providing indirect breath activation</td>
<td>A61M 15/0013</td>
</tr>
<tr>
<td>Inhalation detection</td>
<td>A61M 2016/0015</td>
</tr>
<tr>
<td>Flow sensor</td>
<td>A61M 2016/003</td>
</tr>
</tbody>
</table>

**A61M 15/02**

(with activated or ionised {fluids, e.g. electrohydrodynamic [EHD] or electrostatic devices}; Ozone-inhalators {with radioactive tagged particles})

**Definition statement**

*This place covers:*

Also bubble jet technology inhalators.

**References**

*Informative references*

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Topic</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bubble jet</td>
<td>A61M 15/025</td>
</tr>
<tr>
<td>Sterilisation, deodorisation of air</td>
<td>A61L 9/14</td>
</tr>
</tbody>
</table>
Sterilisation using UV light A61L 9/20
Electrostatic spray gun B05B 5/025
Apparatus for generating ions H01T 23/00

A61M 15/06
Inhaling appliances shaped like cigars, cigarettes or pipes

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

| Simulated smoking devices, e.g. imitation cigarettes | A24F 40/00, A24F 42/00 |

A61M 15/08
Inhaling devices inserted into the nose

Definition statement
This place covers:
Also eyes drop, aromatherapy devices.

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

| Irrigation | A61M 3/00 |
| Using the smell sense | A61M 2021/0016 |
| Correcting deformities of the nose | A61F 5/08 |
| Bath for nose | A61H 35/04 |
| Eucaliptus vaporizer | A61L 9/14 |
| Spraying apparatus | B05B 11/00 |

A61M 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)

Definition statement
This place covers:
Respirator, ventilator, devices for inflating the lungs
References

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Pneumothorax apparatus</th>
<th>A61M 1/04</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anaesthesia apparatus</td>
<td>A61M 16/01</td>
</tr>
<tr>
<td>Inserts in the lungs, e.g. stents</td>
<td>A61F 2002/043</td>
</tr>
<tr>
<td>Correcting deformities of the nose</td>
<td>A61F 5/08</td>
</tr>
<tr>
<td>Device for preventing snoring</td>
<td>A61F 5/56</td>
</tr>
<tr>
<td>Supply appliance</td>
<td>A61G 13/107</td>
</tr>
<tr>
<td>Stimulating the respiratory movement by mechanical, pneumatic or electrical means, iron lungs combined with gas breathing means</td>
<td>A61H 31/00</td>
</tr>
<tr>
<td>Supine patient supports therefor</td>
<td>A61H 31/008</td>
</tr>
<tr>
<td>Gas bath</td>
<td>A61H 33/00</td>
</tr>
<tr>
<td>Respiratory apparatus in general</td>
<td>A62B</td>
</tr>
<tr>
<td>Breathing simulator</td>
<td>A62B 9/003</td>
</tr>
<tr>
<td>Testing ventilators</td>
<td>A62B 27/00, A61M 2209/02</td>
</tr>
<tr>
<td>Portable appliance comprising a gas cartridge</td>
<td>B01F 3/04801</td>
</tr>
<tr>
<td>Respirators for working under water</td>
<td>B63C 11/00</td>
</tr>
<tr>
<td>Hyperbaric chamber</td>
<td>B63C 11/32, A61G 10/026</td>
</tr>
<tr>
<td>Wall plug</td>
<td>F16L 37/24, F16L 37/107, F16L 5/02, F16L 29/02</td>
</tr>
<tr>
<td>Gas reservoir</td>
<td>F17C</td>
</tr>
<tr>
<td>Pipelines, hospital facility gas supply system</td>
<td>F17D 1/02</td>
</tr>
<tr>
<td>Computer driven apparatus</td>
<td>G06F 17/00</td>
</tr>
<tr>
<td>Models for artificial respiration</td>
<td>G09B 23/288</td>
</tr>
</tbody>
</table>

Special rules of classification

Classification using breakdown symbols and orthogonal symbols (i.e. symbols in the 2000 range) is compulsory.

**A61M 16/0045**

{Means for re-breathing exhaled gases, e.g. for hyperventilation treatment}

Definition statement

*This place covers:*

Also devices for hypoxic delivery of gas, e.g CO2.
References

Limiting references
This place does not cover:

| CO2 absorbing device | A61M 16/22 |

Informative references
Attention is drawn to the following places, which may be of interest for search:

| Hyperbaric training room | A61G 10/026 |
| Hypoxic training | A63B 23/18 |
| Training device | A63B 2213/006 |

A61M 16/0048

{Mouth-to-mouth respiration (teaching or training models G09B 23/288)}

References

Informative references
Attention is drawn to the following places, which may be of interest for search:

| Teaching or training models | G09B 23/288 |

A61M 16/0051

{with alarm devices}

References

Informative references
Attention is drawn to the following places, which may be of interest for search:

| Alarm in devices for introducing media | A61M 2205/18 |
| Audible feedback | A61M 2205/581 |
| Tactile feedback | A61M 2205/582 |
| Visual feedback | A61M 2205/583 |
| Alarm for measuring apparatus | G01L 19/12 |

Special rules of classification

Classification using breakdown symbols and orthogonal symbols (i.e. symbols in the 2000 range) is compulsory.
**A61M 16/0054**

{Liquid ventilation}

**Definition statement**

*This place covers:*

Also ventilation in aerosol form.

**References**

*Informative references*

Attention is drawn to the following places, which may be of interest for search:

| Oxygenated solution | A61M 2202/0476 |

**A61M 16/0057**

{Pumps therefor}

**Definition statement**

*This place covers:*

Pumps with variable mechanical maximum volume, limited stroke, hand driven, motor driven, otherwise driven.

**References**

*Informative references*

Attention is drawn to the following places, which may be of interest for search:

| Medical pump | A61M 1/00 |
| Air pumping means for inhalator | A61M 11/006 |
| Reinflatable by elasticity | A61M 16/0084 |
| Other air pumps | A61M 2205/07 |
| Mask with pump | A62B 18/006 |
| Pumps in general | F04 |

**Special rules of classification**

The devices classified in A61M 16/0075, A61M 16/0078 are often inflatable (mostly in anaesthesia), but are not reinflatable by elasticity.

**A61M 16/0066**

{Blowers or centrifugal pumps}

**Definition statement**

*This place covers:*

Pumps in the form of a fan, a turbine.
References

Informative references
Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Helmet with fan</th>
<th>A62B 18/045</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas pump in general</td>
<td>F04D</td>
</tr>
</tbody>
</table>

A61M 16/0072

{Tidal volume piston pumps}

Definition statement
This place covers:
Tidal-Volume means a precise inspiratory volume, e.g. single stroke piston pump.

A61M 16/0078

{Breathing bags}

References

Informative references
Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Buffer chamber</th>
<th>A61M 15/0086</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reinflatable by elasticity</td>
<td>A61M 16/0084</td>
</tr>
<tr>
<td>Material therefor</td>
<td>B23B 27/12</td>
</tr>
</tbody>
</table>

A61M 16/009

{Removing used or expired gases or anaesthetic vapours (Filtering, sterilising or disinfecting the exhaust air in drainage systems A61M 1/0052; Bacterial filters in the expiratory path A61M 16/1065)}

Definition statement
This place covers:
Devices with charcoal, active carbon filter

References

Limiting references
This place does not cover:

| Filtering, sterilising or disinfecting the exhaust air in drainage systems | A61M 1/0052 |
| Bacterial filters in the expiratory path                                | A61M 16/1065 |
A61M 16/0096

{High frequency jet ventilation}

Definition statement
This place covers:
Mainly used for ventilation without respiratory movement, or in case of lung puncture.

A61M 16/01

specially adapted for anaesthetising {(A61M 16/104, A61M 16/18 take precedence)}

Definition statement
This place covers:
Ventilation devices used for anaesthesia.
These devices include in general a closed circuit generally including a CO2 absorber.

References
Limiting references
This place does not cover:

<table>
<thead>
<tr>
<th>Anaesthetic mixer</th>
<th>A61M 16/104</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vaporizers</td>
<td>A61M 16/18</td>
</tr>
</tbody>
</table>

Informative references
Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>CO2 absorber</th>
<th>A61M 16/22</th>
</tr>
</thead>
<tbody>
<tr>
<td>Determining the level of anesthesia</td>
<td>A61B 5/4821</td>
</tr>
</tbody>
</table>

A61M 16/021

{operated by electrical means (A61M 16/202 – A61M 16/205 take precedence)}

References
Limiting references
This place does not cover:

| Controlled valves being electrically actuated | A61M 16/202 - A61M 16/205 |

Informative references
Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Monitoring the respiratory organs</th>
<th>A61B 5/08</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric stimulation by contact electrodes</td>
<td>A61N 1/3601</td>
</tr>
</tbody>
</table>
A61M 16/022
{Control means therefor}

**Definition statement**

*This place covers:*
Control means including automated or user control having displays with feedback.

A61M 16/024
{including calculation means, e.g. using a processor}

**Definition statement**

*This place covers:*
Devices having analog or digital calculators, microprocessors, or computers as the calculation means.
Devices calculating characteristics such as resistance, compliance, or comparison against threshold values.

**References**

*Informative references*

Attention is drawn to the following places, which may be of interest for search:

| Measuring the resistance or compliance of the lungs | A61M 2230/46 |

A61M 16/026
{specially adapted for predicting, e.g. for determining an information representative of a flow limitation during a ventilation cycle by using a root square technique or a regression analysis}

**Definition statement**

*This place covers:*
Estimation systems, prediction systems, systems using root square, regression, or correlation techniques, Proportional-Integral-Derivative (PID) systems.

A61M 16/04
Tracheal tubes (catheters in general A61M 25/00)

**Definition statement**

*This place covers:*
They are tubes introduced generally through the mouth or the nose of the patient, e.g. endotracheal tubes.

**References**

*Informative references*

Attention is drawn to the following places, which may be of interest for search:

| Catheters in general | A61M 25/00 |
### A61M 16/044

**{External cuff pressure control or supply, e.g. synchronisation with respiration}**

#### References

**Informative references**

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Device</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure indicating device</td>
<td>A61M 5/486, A61M 25/1018</td>
</tr>
<tr>
<td>Mushroom valve</td>
<td>A61M 16/206</td>
</tr>
<tr>
<td>Blood pressure cuff pressurizing apparatus</td>
<td>A61B</td>
</tr>
</tbody>
</table>

### A61M 16/0461

**{Nasoendotracheal tubes}**

#### References

**Informative references**

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Device</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nasal cannula</td>
<td>A61M 16/0666</td>
</tr>
</tbody>
</table>

### A61M 16/0463

**{combined with suction tubes, catheters or the like; Outside connections}**

#### Definition statement

This place covers:

A manifold, a suction inside the tube.

#### References

**Informative references**

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Device</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Access means to the stomach</td>
<td>A61M 16/0415</td>
</tr>
<tr>
<td>Aseptic insertion for catheters in general</td>
<td>A61M 25/0111</td>
</tr>
<tr>
<td>Gastroscopy feeding tube</td>
<td>A61J 15/0015</td>
</tr>
</tbody>
</table>
Special rules of classification
Also combined with drug delivery tube.

A61M 16/0465
{Tracheostomy tubes; Devices for performing a tracheostomy; Accessories therefor, e.g. masks, filters}

Definition statement
This place covers:
Tube introduced through the trachea, e.g. tracheostomy tube.

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Obturators</th>
<th>A61M 16/0429</th>
</tr>
</thead>
<tbody>
<tr>
<td>Artificial nose, transtracheal catheter, (trans)cricothyroid catheter, coniostomy prosthesis</td>
<td>A61F 2/203</td>
</tr>
</tbody>
</table>

A61M 16/0468
{with valves at the proximal end limiting exhalation, e.g. during speaking or coughing (air passages from trachea to oesophagus or to pharynx, artificial epiglottis A61F 2/203)}

Definition statement
This place covers:
Example: To enable the patient to speak.

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

| Air passages from trachea to oesophagus or to pharynx, artificial epiglottis | A61F 2/203 |

A61M 16/047
{Masks, filters, surgical pads, devices for absorbing secretions, specially adapted therefor}

Definition statement
This place covers:
Also plaster therefor
A61M 16/0472
{Devices for performing a tracheostomy}

Definition statement
This place covers:
Tools for making an opening.

A61M 16/0488
{Mouthpieces; Means for guiding, securing or introducing the tubes (guiding or introducing with laryngoscopes A61B 1/267; holding devices on the body A61M 25/02)}

Definition statement
This place covers:
Also includes holders.

References

Limiting references
This place does not cover:

<table>
<thead>
<tr>
<th>Item</th>
<th>CPC Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouthpieces for live saving</td>
<td>A62B 9/06</td>
</tr>
<tr>
<td>Mouthpieces in lung exercises</td>
<td>A63B 23/18</td>
</tr>
<tr>
<td>Mouthpieces for divers</td>
<td>B63C 11/186</td>
</tr>
</tbody>
</table>

Informative references
Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Item</th>
<th>CPC Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Obturators</td>
<td>A61M 16/0429</td>
</tr>
<tr>
<td>Holding devices on the body</td>
<td>A61M 25/02</td>
</tr>
<tr>
<td>Guiding or introducing with laryngoscopes</td>
<td>A61B 1/267</td>
</tr>
<tr>
<td>Detecting from outside</td>
<td>A61B 5/06</td>
</tr>
<tr>
<td>Head rest</td>
<td>A61B 90/14 , A61G 13/12, A61F 5/3707</td>
</tr>
<tr>
<td>Correcting deformities of the nose</td>
<td>A61F 5/08</td>
</tr>
<tr>
<td>Patient airway positionning</td>
<td>A61G 13/1215</td>
</tr>
</tbody>
</table>

A61M 16/06
Respiratory or anaesthetic masks

Definition statement
This place covers:
Also hoods, cups
References

Limiting references
This place does not cover:

| Breathing masks in general | A62B 18/00 |

Informative references
Attention is drawn to the following places, which may be of interest for search:

| Protective and/or surgical face mask | A41D 13/11 |
| Correction of the deformities of the nose | A61F 5/08 |
| First aid mask | A62B 17/04, A62B 18/00 |
| Half mask | A62B 18/025 |
| Fabrication by injection moulding | B29C |
| Fabrication of gas mask | B29D 99/0071 |

A61M 16/0666

{Nasal cannulas or tubing (devices for improving normal breathing through the nose A61F 5/08; nose filters A62B 23/06; outside holding devices A61M 25/02)}

Definition statement
This place covers:
Also mounts for nasal tube.

References

Informative references
Attention is drawn to the following places, which may be of interest for search:

| Outside holding devices | A61M 25/02 |
| Occluding, e.g. bellows | A61B 17/12022 |
| Devices for improving normal breathing through the nose | A61F 5/08 |
| Nose filters | A62B 23/06 |

A61M 16/0683

{Holding devices therefor}

Definition statement
This place covers:
Strap, headgear.
References

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Means for securing a tube</th>
<th>A61M 16/0488</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fastening means</td>
<td>A62B 18/084</td>
</tr>
<tr>
<td>Aquatic headgear</td>
<td>B63C 11/12</td>
</tr>
</tbody>
</table>

**A61M 16/08**

Bellows; Connecting tubes {{having means for taking samples G01N 1/22}; Water traps; Patient circuits}

Definition statement

*This place covers:*

Between a ventilator and the mask.

References

Limiting references

*This place does not cover:*

<table>
<thead>
<tr>
<th>Supports</th>
<th>F16M 11/00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Having means for taking samples</td>
<td>G01N 1/22</td>
</tr>
</tbody>
</table>

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Heated tubes</th>
<th>A61M 16/1095</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tube support</td>
<td>A61M 2209/082</td>
</tr>
</tbody>
</table>

**A61M 16/0808**

{Condensation traps}

Definition statement

*This place covers:*

To dry the gas.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Vaporization chambers</th>
<th>A61M 16/18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drying gas</td>
<td>B01D 53/26</td>
</tr>
</tbody>
</table>
A61M 16/0816
{Joints or connectors}

**Definition statement**

This place covers:
Connector: the element between the ventilation device and the tube

**References**

**Informative references**

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Connector</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tube connector</td>
<td>A61M 39/10</td>
</tr>
<tr>
<td>Detection of the connection</td>
<td>A61M 2205/14</td>
</tr>
<tr>
<td>Wall plug</td>
<td>F16L 37/24, F16L 37/107, F16L 5/02, F16L 29/02</td>
</tr>
</tbody>
</table>

A61M 16/0875
{Connecting tubes}

**References**

**Informative references**

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Tubes</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tubes</td>
<td>A61M 39/08</td>
</tr>
<tr>
<td>Hoses in general</td>
<td>F16L 11/00</td>
</tr>
<tr>
<td>Pipelines, hospital facility gas supply system</td>
<td>F17D 1/02</td>
</tr>
</tbody>
</table>

A61M 16/10

**Preparation of respiratory gases or vapours**

**Definition statement**

This place covers:
"Vapours": any substance in the vapour phase.

**References**

**Informative references**

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Local anaesthesia</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local anaesthesia</td>
<td>A61M 19/00</td>
</tr>
<tr>
<td>O2 for aircraft</td>
<td>A62B 7/14, B64D 13/06</td>
</tr>
<tr>
<td>Cryogenic reservoir</td>
<td>F17C 9/02</td>
</tr>
</tbody>
</table>
**A61M 16/104**
{specially adapted for anaesthetics (**A61M 16/18**) takes precedence)}

**Definition statement**

*This place covers:*
Mixer for anaesthetics with safety solution.

**References**

**Limiting references**

*This place does not cover:*

<table>
<thead>
<tr>
<th>Vaporizers</th>
<th>A61M 16/18</th>
</tr>
</thead>
</table>

**Informative references**

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Adapted for anaesthesia</th>
<th>A61M 16/01</th>
</tr>
</thead>
<tbody>
<tr>
<td>Local anaesthesia</td>
<td>A61M 19/00</td>
</tr>
<tr>
<td>Veterinary applications</td>
<td>A61D 7/04</td>
</tr>
<tr>
<td>Mixing in general</td>
<td>B01F 3/02</td>
</tr>
</tbody>
</table>

**A61M 16/1045**
{Devices for humidifying or heating the inspired gas by using recovered moisture or heat from the expired gas}

**Definition statement**

*This place covers:*
HME, Heat and Moisture Exchanger, e.g. passive humidifier.

**References**

**Informative references**

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>CO2 canister</th>
<th>A61M 16/22</th>
</tr>
</thead>
</table>

**Special rules of classification**

Also for anaesthetic agent.

**A61M 16/105**
{Filters (**A61M 16/047**, **A61M 16/22**) take precedence; water traps **A61M 16/08**)}

**Definition statement**

*This place covers:*
Gas filtering for medical purpose
References

Limiting references

This place does not cover:

<table>
<thead>
<tr>
<th>Description</th>
<th>Class Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Masks, filters, surgical pads, devices for absorbing secretions, specially</td>
<td>A61M 16/047</td>
</tr>
<tr>
<td>adapted therefor</td>
<td></td>
</tr>
<tr>
<td>CO2 canister</td>
<td>A61M 16/22</td>
</tr>
</tbody>
</table>

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Description</th>
<th>Class Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water traps</td>
<td>A61M 16/0808</td>
</tr>
<tr>
<td>Respiratory filter</td>
<td>A62B 7/10</td>
</tr>
<tr>
<td>Filter in general</td>
<td>B01D 46/00</td>
</tr>
</tbody>
</table>

A61M 16/1075

{by influencing the temperature (A61M 16/1045 takes precedence)}

Definition statement

This place covers:

The temperature of the gas or the liquid.

References

Limiting references

This place does not cover:

<table>
<thead>
<tr>
<th>Description</th>
<th>Class Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heat and Moisture Exchanger</td>
<td>A61M 16/1045</td>
</tr>
</tbody>
</table>

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Description</th>
<th>Class Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tube</td>
<td>A61M 16/08</td>
</tr>
<tr>
<td>Heating</td>
<td>A61M 2205/36</td>
</tr>
<tr>
<td>Biomedical electrical heating control</td>
<td>H05B 1/025</td>
</tr>
</tbody>
</table>

A61M 16/12

by mixing different gases

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Description</th>
<th>Class Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anaesthesia mixer</td>
<td>A61M 16/104</td>
</tr>
<tr>
<td>Gas mixing in general</td>
<td>B01F 3/02</td>
</tr>
</tbody>
</table>
by mixing different fluids, one of them being in a liquid phase

Definition statement

This place covers:
Also powder mixing with gas.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Sprayers with venturi</th>
<th>A61M 11/06</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixing in general</td>
<td>B01F 3/02</td>
</tr>
</tbody>
</table>

A61M 16/16

Devices to humidify the respiration air {A61M 16/1045 takes precedence} 

References

Limiting references

This place does not cover:

<table>
<thead>
<tr>
<th>Heat and Moisture Exchanger</th>
<th>A61M 16/1045</th>
</tr>
</thead>
</table>

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Passive humidifier</th>
<th>A61M 16/1045</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vaporizer</td>
<td>A61M 16/18</td>
</tr>
<tr>
<td>CO2 canister</td>
<td>A61M 16/22</td>
</tr>
<tr>
<td>Steam bath</td>
<td>A61H 33/12</td>
</tr>
<tr>
<td>Mixing gas and liquid in general</td>
<td>B01F 3/04</td>
</tr>
<tr>
<td>Air-humidification, e.g. &quot;room humidifiers&quot;</td>
<td>F24F 6/00</td>
</tr>
<tr>
<td>Humidification in general</td>
<td>F24F 6/00, F24F 6/18, F22B 1/28</td>
</tr>
</tbody>
</table>
A61M 16/162

{Water-reservoir filling system, e.g. automatic}

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Filling systems in general | B65D 5/32 |

A61M 16/18

Vaporising devices for anaesthetic preparations

Definition statement

This place covers:

Vaporizer for a product such as Halothane, e.g. halogenated ethers.

A61M 16/183

{Filling systems}

Definition statement

This place covers:

Anaesthetic-reservoir filling system; contains also level detection system therefor.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Level detection | A61M 2205/3379 |
| Filling system  | A61M 2209/045  |
| Filling systems in general | B65D 5/32 |

A61M 16/186

{Locking systems}

Definition statement

This place covers:

System for safely locking a vaporizer to an anaesthesia machine; also for humidifier, bottles, switching system.
### A61M 16/20

**Valves specially adapted to medical respiratory devices**

**Definition statement**

*This place covers:*

Also PEEP (Positive End Expiratory Pressure) valve.

**References**

**Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

<table>
<thead>
<tr>
<th>Medical valve</th>
<th>A61M 39/22</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apparatus for passive exercising</td>
<td>A61H 1/00</td>
</tr>
<tr>
<td>Respiratory valve</td>
<td>A62B 9/02</td>
</tr>
<tr>
<td>Breathing training devices</td>
<td>A63B 23/18</td>
</tr>
<tr>
<td>Divers equipment</td>
<td>B63C 11/00</td>
</tr>
<tr>
<td>Valve in general</td>
<td>F16K</td>
</tr>
</tbody>
</table>

### A61M 16/208

{Non-controlled one-way valves, e.g. exhalation, check, pop-off non-rebreathing valves}

**Definition statement**

*This place covers:*

Check valve.

**References**

**Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

<table>
<thead>
<tr>
<th>Vibration means</th>
<th>A61M 16/0006</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respiratory one-way valves</td>
<td>A62B 18/10</td>
</tr>
<tr>
<td>One-way valves in general</td>
<td>F16K 15/14, F16K 15/16</td>
</tr>
</tbody>
</table>

**Special rules of classification**

Also tanks
A61M 16/22

Carbon dioxide-absorbing devices {; Other means for removing carbon dioxide} (cartridges with absorbing substances for respiratory apparatus A62B 19/00)

Definition statement
This place covers:
CO2 canister, soda-lime canister

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Filter</th>
<th>A61M 16/1045, A61M 16/105</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cartridges with absorbing substances for respiratory apparatus</td>
<td>A62B 19/00</td>
</tr>
</tbody>
</table>

A61M 19/00

Local anaesthesia (syringes therefor A61M 5/00); Hypothermia (A61M 5/42 takes precedence; cooling blood in a bypass of the arterial system A61M 1/36)

References
Limiting references
This place does not cover:

| Desensitising skin | A61M 5/42 |

Informative references
Attention is drawn to the following places, which may be of interest for search:

| Cooling blood in a bypass of the arterial system | A61M 1/36 |
| Syringes therefor | A61M 5/00 |
| Epidural puncture | A61B 17/3401 |
| Cooling internal body cavities | A61F 7/12 |

Special rules of classification
The breakdown symbols (i.e. the non "parallel" or non "mirror" symbols) and "orthogonal" symbols are to be used for classifying the invention information (in addition to the invention symbols) in case the invention is insufficiently classified by an invention information symbol. They are also to be used for classifying the additional information. They are stored in the additional information field. The "subdivision" Indexing Code symbols (i.e. the non "parallel" Indexing Code symbols) are used for classifying as well the invention information as the additional information. They are stored only in the additional information field. The "orthogonal" Indexing Code symbols are also used.
A61M 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

Definition statement

This place covers:

Devices or processes specially adapted to increase or decrease the mental activity of humans while awake (e.g., relax, stimulate) and that do so in a manner other than that which commonly occurs (e.g., creating boredom).

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Measuring the level of relaxation</th>
<th>A61B 5/16</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biorhythms</td>
<td>A61B 5/4857</td>
</tr>
<tr>
<td>Light or sound exposure not directed to the corresponding sensory organ</td>
<td>A61N</td>
</tr>
<tr>
<td>Psychological treatment using light therapy</td>
<td>A61N 5/0618</td>
</tr>
<tr>
<td>Respiratory rhythm indicators</td>
<td>A63B 23/185</td>
</tr>
<tr>
<td>Alarm clocks</td>
<td>G04B 23/00, G04C 21/00</td>
</tr>
<tr>
<td>Speech recognition</td>
<td>G10L 15/00</td>
</tr>
<tr>
<td>Tinnitus</td>
<td>H04R 25/75, A61B 5/12</td>
</tr>
</tbody>
</table>

Special rules of classification

The "subdivision" Indexing Code symbols (i.e. the non "parallel" Indexing Code symbols) are used for classifying as well the invention information as the additional information. They are stored only in the additional information field. The "orthogonal" Indexing Code symbols are also used.

A61M 21/0094

{Isolation chambers used therewith, i.e. for isolating individuals from external stimuli (other treatment rooms or enclosures A61G 10/00)}

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Other treatment rooms or enclosures</th>
<th>A61G 10/00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isolators</td>
<td>A61G 10/02</td>
</tr>
<tr>
<td>Bathing devices</td>
<td>A61H 33/00</td>
</tr>
</tbody>
</table>
A61M 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 1/36021)

References
Limiting references
This place does not cover:

Applying alternating or intermittent electric currents for producing __A61N 1/36021__

Informative references
Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Analgesic delivery</th>
<th>A61M 5/00, A61M 16/00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sleep evaluation</td>
<td>A61B 5/4806</td>
</tr>
<tr>
<td>For massage</td>
<td>A61H</td>
</tr>
<tr>
<td>Electrotherapy</td>
<td>A61N 1/3601</td>
</tr>
</tbody>
</table>

A61M 25/00
Catheters; Hollow probes (dilators A61M 29/00; (peritoneal catheters A61M 1/285; tracheal tubes A61M 16/04; for drainage A61M 27/00; for uterus, vagina or rectum A61M 31/00) ; for measuring or testing A61B; (materials for catheters A61L 29/00))

Definition statement
This place covers:
Static features, like structure, shape, mechanical properties and method of making of catheters.

References
Limiting references
This place does not cover:

| Peritoneal catheter          | A61M 1/285               |
| Tracheal tubes               | A61M 16/04               |
| Dynamic features of catheters, like steering, guiding and advancing | A61M 25/01               |
| Drainage tubes               | A61M 27/00               |
| Catheters for natural cavities (e.g. uterus, vagina, rectum) | A61M 31/00               |
| Surgical instruments         | A61B 17/00               |
| Surgical instruments for veterinary use | A61D 1/00               |
| Feeding tubes                | A61J 15/00               |
| Materials for catheters      | A61L 29/00               |
Special rules of classification

Due to the more general character of the main group A61M 25/00 and its sub groups, there is an overlap with several different sub classes (A61B, A61F, A61N, A61J, A61K, A61L) and main groups, especially with the main groups A61B 17/00 (Surgical instruments, devices or methods), A61B 18/00 (Surgical instruments, devices or methods for transferring non-mechanical forms of energy to or from the body) and A61B 90/00 (Instruments, implements or accessories for surgery or diagnosis not covered) and their sub groups.

The difference should be made by the following (an example is given for surgical uses, but is valid for other uses as well, e.g. catheters for use in stent delivery see A61F 2/95, endoscopes see A61B 1/00, catheters for use as feeding tubes A61J 15/00):

If the technical feature, which appears to be the invention, is disclosed only in relationship with a surgical use, respectively adapted only for surgical use, it should be classified as invention information in the relevant sub group/sub groups of A61B 17/00, A61B 18/00 or A61B 90/00.

If this technical feature appears to add a beneficial contribution to the documentation in A61M 25/00, then classify it as additional information in the relevant sub group/sub groups of A61M 25/00.

If the technical feature, which appears to be the invention, is disclosed in a general way, i.e. only one embodiment relates to a surgical use, or other uses are disclosed equivalently, then it should be classified as invention information into the relevant sub group/sub groups of A61M 25/00.

If this technical feature appears to add a beneficial contribution to the documentation in A61B 17/00, A61B 18/00 or A61B 90/00, then classify it as additional information in the relevant sub group/sub groups of A61B 17/00, A61B 18/00 or A61B 90/00.

In doubt please classify in more sub classes, main groups and/or sub groups, rather than in too less.

A61M 2025/0002
{with a pressure sensor at the distal end}

Definition statement

This place covers:
Catheters with additional pressure sensors

Sensors at the distal end are only used for pressure measurement
The sensor is at the distal end, i.e. within the body during a measurement.

No details of pressure sensor or pressure measurement

The features "pressure sensor", "pressure measurement" are only additional features of the invention and not the invention itself

References

Limiting references

This place does not cover:

| Pressure measurement catheters, details of pressure measurement, pressure sensors and other sensors | A61B 5/00 |
**A61M 2025/0003**

{having an additional lumen transmitting fluid pressure to the outside for measurement}

**Definition statement**

*This place covers:*

Catheters with additional pressure sensors

Sensors are only used for pressure measurement.

The sensor is at the proximal end or outside of the catheter.

No details of pressure sensor or pressure measurement.

In this subgroup the features "pressure sensor", "pressure measurement" are only additional features of the invention and not the invention itself

**References**

**Limiting references**

*This place does not cover:*

| Pressure measurement catheters, details of pressure measurement, pressure sensors and other sensors | A61B 5/00 |

**A61M 2025/0004**

{having two or more concentrically arranged tubes for forming a concentric catheter system}

**Definition statement**

*This place covers:*

Catheter system, comprising concentric catheter tubes movable with respect to each other

Systems with two or more tubes/catheters within each other in a concentric way forming one entity

**References**

**Limiting references**

*This place does not cover:*

| Catheters having telescopic features, interengaging nestable members movable in relation to one another | A61M 2025/0175 |
| Systems with catheter and outer tubing | A61M 2025/0681 |
A61M 2025/0007

{Epidural catheters}

Definition statement

*This place covers:*
The use of catheters as epidural, peridural, peritoneal and spinal catheters; the terms "epidural, peridural, peritoneal, spinal" trigger the classification into this subgroup.

References

Limiting references

*This place does not cover:*

| Puncturing needles | A61B 17/3401 |

Informative references

Attention is drawn to the following places, which may be of interest for search:

| For the use in the brain or cerebrum | A61M 2210/0693 |
| For the use in the spinal column | A61M 2210/1003 |

A61M 2025/0008

{having visible markings on its surface, i.e. visible to the naked eye, for any purpose, e.g. insertion depth markers, rotational markers or identification of type}

Definition statement

*This place covers:*
Visible (optical) markers on catheters, tubes or guide wires.

References

Limiting references

*This place does not cover:*

| Radio-opaque and ultrasound marker on catheters or medical tubes | A61M 25/0108 |
| Magnetic marker on catheters or medical tubes | A61M 25/0127 |
| Radio-opaque markers on guide wires | A61M 2025/09166 |
| Visible markers which specifically belong to surgical instruments | A61B 90/39, A61B 2017/00796 |

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Optical identification means | A61M 2205/6063 |
A61M 25/0009

{Making of catheters or other medical or surgical tubes}

Definition statement

This place covers:

• Methods and processes of making and manufacturing of catheters and medical or surgical tubes
• This subgroup covers as well apparatus for manufacturing, which are specifically used for producing catheters

References

Limiting references

This place does not cover:

Method of making a guide wire A61M 2025/09108
Connections between catheter tubes and inflation tubes A61M 25/1025
Method of making balloon catheters A61M 25/1027
Making of surgical instruments A61B 17/00
Making of surgical instruments for transferring non-mechanical forms of energy (specific features for such devices, e.g. electrodes, cryotips) A61B 18/00

Informative references

Attention is drawn to the following places, which may be of interest for search:

Devices for applying a coating B05C
Process for applying a coating B05D
Cutting tools B26B

For a single-step process, or a specific step in a multi-step process:

Injection moulding B29C 45/00
Extrusion moulding B29C 48/00
Blow moulding B29C 49/00
Shaping by stretching, e.g. drawing though a die B29C 55/22
Shaping of tube ends B29C 57/00
Lining or sheathing B29C 63/00
Joining B29C 65/00

For a multi-step process:

Producing tubular articles B29D 23/00

Special rules of classification

If a process leads to an interesting product, classify as well in the relevant Indexing Code subgroup
All machines that are specifically used for performing these manufacturing processes should be classified here, including large machines. If they are not used specifically for manufacturing catheters, then please see the references in this definition.

General methods for manufacturing and apparatuses for performing such methods are classified in the classes regarding methods, e.g. class B21 (for metal products), B26 (for cutting), B29 (for plastic products). Methods for manufacturing, which are adapted to produce only a certain medical device (e.g. catheter, guidewire) will be classified in the class for the product, e.g. A61 (for medical products). Apparatus for manufacturing a medical device which belong to a certain method for manufacturing will be classified in the same subgroup as the method.

For example, a method and apparatus of manufacturing of a special shaped balloon for the sole use with a balloon catheter (balloon used only for a catheter) will be classified in A61M 25/1029 as invention information. Usually this document should also be considered for B29C 49/00 (blow moulding) in addition.

As another example, a method and apparatus for manufacturing a plastic tube including blow moulding which discloses only casually that catheters can be made with it, will be classified in the relevant subgroup of B29C 49/00 as invention information and will get a classification in A61M 25/1029 as additional information if this method/apparatus could be relevant for a future search in this field.

**A61M 25/001**

*{Forming the tip of a catheter, e.g. bevelling process, join or taper}*

**Definition statement**

*This place covers:*

Also apparatus for manufacturing, which are specifically used for forming the tip of a catheter.

**References**

**Limiting references**

*This place does not cover:*

| Method of making balloon catheters          | A61M 25/1027 |

**Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

| Catheter characterised by the distal end    | A61M 25/0067 |
| Cutting tools                              | B26         |
| Injection moulding                         | B29C 45/00  |
| Extrusion moulding                         | B29C 48/00  |
| Blow moulding                              | B29C 49/00  |
| Shaping of tube ends                       | B29C 57/00  |
| Joining                                    | B29C 65/00  |

**Special rules of classification**

If a process leads to an interesting product, classify as well in the relevant Indexing Code subgroup of A61M 25/0067.
**A61M 25/0012**

{with embedded structures, e.g. coils, braids, meshes, strands or radiopaque coils}

**Definition statement**

*This place covers:*

Methods or processes of making or manufacturing of catheters or medical or surgical tubes, which have structures made of different materials incorporated into bulk material, e.g. through moulding, or in-between two coatings.

This subgroup covers also apparatus for manufacturing, which are specifically used for embedding structures into catheters.

**References**

*Informative references*

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Catheters with embedded materials</th>
<th>A61M 25/005</th>
</tr>
</thead>
<tbody>
<tr>
<td>Devices for applying a coating</td>
<td>B05C</td>
</tr>
<tr>
<td>Process for applying a coating</td>
<td>B05D</td>
</tr>
<tr>
<td>Injection moulding</td>
<td>B29C 45/00</td>
</tr>
<tr>
<td>Extrusion moulding</td>
<td>B29C 48/00</td>
</tr>
<tr>
<td>Blow moulding</td>
<td>B29C 49/00</td>
</tr>
<tr>
<td>Lining or sheathing</td>
<td>B29C 63/00</td>
</tr>
<tr>
<td>Producing tubular articles</td>
<td>B29D 23/00</td>
</tr>
</tbody>
</table>

**Special rules of classification**

If a process leads to an interesting product, classify as well in the relevant Indexing Code subgroup A61M 25/005

**A61M 25/0013**

{Weakening parts of a catheter tubing, e.g. by making cuts in the tube or reducing thickness of a layer at one point to adjust the flexibility}

**Definition statement**

*This place covers:*

This group covers as well apparatus for manufacturing, which are specifically used for weakening parts of catheter tubings.

**References**

*Limiting references*

This place does not cover:

<table>
<thead>
<tr>
<th>Tip steering due to weakening outer material</th>
<th>A61M 25/0138</th>
</tr>
</thead>
</table>
Informative references
Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Description</th>
<th>CPC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catheters with regions for increasing flexibility</td>
<td>A61M 25/0054</td>
</tr>
<tr>
<td>Cutting tools</td>
<td>B26B</td>
</tr>
</tbody>
</table>

Special rules of classification
If a process leads to an interesting product, classify as well in the relevant Indexing Code subgroups of A61M 25/0054

A61M 25/0014
{Connecting a tube to a hub}

Definition statement
This place covers:
This group covers as well apparatus for manufacturing, which are specifically used for connecting a catheter tube to a hub

References
Limiting references
This place does not cover:

<table>
<thead>
<tr>
<th>Description</th>
<th>CPC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connections between catheter tubes and inflation tubes</td>
<td>A61M 25/1025</td>
</tr>
</tbody>
</table>

Informative references
Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Description</th>
<th>CPC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Characterised by the hub</td>
<td>A61M 25/0097</td>
</tr>
<tr>
<td>Tube connectors; tube couplings</td>
<td>A61M 39/10</td>
</tr>
<tr>
<td>Joining</td>
<td>B29C 65/00</td>
</tr>
</tbody>
</table>

Special rules of classification
If a process leads to an interesting product, classify as well in the relevant Indexing Code subgroup A61M 25/0097

A61M 25/0015
{Making lateral openings in a catheter tube, e.g. holes, slits, ports, piercings of guidewire ports; Methods for processing the holes, e.g. smoothing the edges}

Definition statement
This place covers:
This group covers as well apparatus for manufacturing, which are specifically used to make lateral openings in a catheter tube
References

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Side holes</th>
<th>A61M 25/007</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cutting tools</td>
<td>B26B</td>
</tr>
</tbody>
</table>

**A61M 25/0017**

{specially adapted for long-term hygiene care, e.g. urethral or indwelling catheters to prevent infections}

Definition statement

This place covers:

- All catheters which stay in the body for a prolonged period of time and are specially adapted therefore, e.g. antimicrobial coatings, surface properties, drainage
- Urinary catheters (used within the bladder, urethra, etc.) only for long-term use
- All catheters which stay in the body for a prolonged period of time and are therefore specially adapted to reduce the risks of a long term treatment (e.g. inflammation, clotting), e.g. by coatings, surface properties

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Drainage catheters</th>
<th>A61M 27/00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Closure means for urethra</td>
<td>A61F 2/0004</td>
</tr>
<tr>
<td>Devices worn by the patient for reception of urine</td>
<td>A61F 5/44</td>
</tr>
</tbody>
</table>

**A61M 2025/0019**

{Cleaning catheters or the like, e.g. for reuse of the device, for avoiding replacement}

Definition statement

This place covers:

- Cleaning the catheter from the inside and/or outside.
- Cleaning with or without solutions.
- Cleaning with or without mechanical means, e.g. brush.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Cleaning pipes or tubes, external surfaces</th>
<th>B08B 9/023</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cleaning pipes or tubes, internal surfaces</td>
<td>B08B 9/027</td>
</tr>
</tbody>
</table>
Special rules of classification
Give A61M 25/00 in addition to the Indexing Code subgroup A61M 2025/0019, if only a process or an apparatus for cleaning a catheter or medical tube is disclosed.

Otherwise give the most relevant classification symbol, e.g. cleaning a balloon catheter with a special shape: A61M 25/1002 and A61M 2025/0019.

A61M 25/002

{Packages specially adapted therefor (combined with means for introducing catheters, e.g. dispensers, A61M 25/0113); catheter kit packages (for surgical articles A61B 50/30)}

Definition statement
This place covers:
Packages only for catheters, medical tubes and guide wires

References
Limiting references
This place does not cover:
- Packages specially adapted for devices for bringing media into the body in a subcutaneous, intra-vascular or intramuscular way
- Aseptic insertion devices
- Catheter dispensers
- Packages or dispensers for (surgical) needles or sutures
- Casings for packaging, protecting or dispensing (surgical) articles
- Packages or dispensers for prostheses or other implants

Informative references
Attention is drawn to the following places, which may be of interest for search:
- Containers, packaging elements or packages specially adapted for particular articles or materials
- Containers, packaging elements or packages for contents presenting particular transport or storage problems
- Containers or packaging with special means for dispensing contents (i.e. to take things out of a package)
- Containers, packaging elements or packages specially adapted for particular articles or materials

A61M 25/0021

{characterised by the form of the tubing (A61M 25/0054 takes precedence)}

Definition statement
This place covers:
Tubings with specific shapes of the outer tubing or the inner lumen, e.g. rectangular outer tubing
References

Limiting references

This place does not cover:

| With regions for increasing flexibility (takes precedence) | A61M 25/0054 |

A61M 2025/0024

{Expandable catheters or sheaths}

Definition statement

This place covers:

Catheters, medical tubes or sheaths which are expandable over their entire or at least sufficient length (not tip only)

References

Limiting references

This place does not cover:

| For holding in lumen | A61M 25/04 |
| Balloon catheter | A61M 25/10 |
| Dilators | A61M 29/00 |

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Guide tubes | A61M 25/0662 |
| Trocars; Puncturing needles, details of tips or shafts | A61B 17/3421 |

A61M 2025/0025

{having a collapsible lumen}

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Trocars; Puncturing needles, details of tips or shaft | A61B 17/3421 |
**A61M 25/0026**

{Multi-lumen catheters with stationary elements (catheter assemblies comprising a catheter in combination with a guide tube, sheath or sleeve [A61M 2025/0681]; catheters comprising telescoping coaxial elements [A61M 2025/0175])}

**Definition statement**

*This place covers:*
- Tubes defining the multi-lumens or the multi-lumens themselves do not move relative to each other
- Aspiration and irrigation catheters should be classified into this group as well
- Only multi-lumen catheters

**References**

**Limiting references**

*This place does not cover:*

<table>
<thead>
<tr>
<th>Concentric catheters</th>
<th>A61M 2025/0004</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catheter tip with multiple lumens</td>
<td>A61M 25/0071</td>
</tr>
<tr>
<td>Balloon catheters</td>
<td>A61M 25/10</td>
</tr>
</tbody>
</table>

**Informative references**

*Attention is drawn to the following places, which may be of interest for search:*

| Drainage tubes; Aspiration tips | A61M 1/008 |
| Catheters for dialysis | A61M 1/285 |
| Interfaces of extra-corporeal blood circuits | A61M 1/3653 |

**A61M 25/0028**

{characterized by features relating to at least one lumen located at the proximal part of the catheter, e.g. alterations in lumen shape or valves (catheter hubs [A61M 25/0097])}

**Definition statement**

*This place covers:*
- Multilumen catheters with features relating to the proximal part of the lumens
- Only multi-lumen catheters

**References**

**Limiting references**

*This place does not cover:*

| characterised by the hub | A61M 25/0097 |
**A61M 25/0029**

{characterized by features relating to least one lumen located at the middle part of the catheter, e.g. slots, flaps, valves, cuffs, apertures, notches, grooves or rapid exchange ports (catheter shaft surface irregularities A61M 2025/006)}

**Definition statement**

This place covers:

- Multilumen catheters with features relating to the middle part of the lumens
- Only multi-lumen catheters

**References**

**Limiting references**

This place does not cover:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Having a special surface topography or special surface properties</td>
<td>A61M 2025/006</td>
</tr>
<tr>
<td>Side holes at distal tip</td>
<td>A61M 25/007</td>
</tr>
<tr>
<td>Balloon catheter</td>
<td>A61M 25/10</td>
</tr>
</tbody>
</table>

**A61M 25/003**

{characterized by features relating to least one lumen located at the distal part of the catheter, e.g. filters, plugs or valves (catheter tips A61M 25/0067)}

**Definition statement**

This place covers:

- Multilumen catheters with features relating to the distal part of the lumens
- Only multi-lumen catheters

**References**

**Limiting references**

This place does not cover:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distal tip features generally</td>
<td>A61M 25/0067</td>
</tr>
</tbody>
</table>

**A61M 2025/0031**

{characterized by lumina for withdrawing or delivering, i.e. used for extracorporeal circuit treatment}

**References**

**Informative references**

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catheters for dialysis</td>
<td>A61M 1/285</td>
</tr>
<tr>
<td>Extra-corporeal blood circuits</td>
<td>A61M 1/3621</td>
</tr>
</tbody>
</table>
**A61M 25/0041**

{pre-formed, e.g. specially adapted to fit with the anatomy of body channels (urethral catheters **A61F 2/04**)}

**References**

**Limiting references**

*This place does not cover:*

<table>
<thead>
<tr>
<th>Description</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tip steering with pre-shaped mechanisms</td>
<td>A61M 25/0152</td>
</tr>
<tr>
<td>Pre-shaped guide wires</td>
<td>A61M 25/09</td>
</tr>
<tr>
<td>Pre-shaped drainage appliances, for use in the urethral or ureteral tract</td>
<td>A61M 27/008</td>
</tr>
<tr>
<td>Implantable prosthesis in hollow or tubular parts of organs</td>
<td>A61F 2/04</td>
</tr>
</tbody>
</table>

**A61M 2025/0042**

{Microcatheters, cannula or the like having outside diameters around 1 mm or less}

**Definition statement**

*This place covers:*

Classify documents into this group if the outer diameter of a catheter is 1 mm or less or the word "microcatheters", etc. is used.

**A61M 25/0045**

{multi-layered, e.g. coated (coating materials **A61L 29/08**)}

**Definition statement**

*This place covers:*

Multi-layer structures of catheters made e.g. by coating tubes, by coextruding tubes, by laminating tubes

**References**

**Limiting references**

*This place does not cover:*

<table>
<thead>
<tr>
<th>Description</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coating materials</td>
<td>A61L 29/08</td>
</tr>
</tbody>
</table>

**A61M 2025/0046**

{Coatings for improving slidability}

**References**

**Limiting references**

*This place does not cover:*

<table>
<thead>
<tr>
<th>Description</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coating materials</td>
<td>A61L 29/08</td>
</tr>
</tbody>
</table>
A61M 25/005
{with embedded materials for reinforcement, e.g. wires, coils, braids}

Definition statement

This place covers:
Features to reinforce catheter tubes.

References

Limiting references

This place does not cover:

<table>
<thead>
<tr>
<th>Methods of making catheters with embedded structures</th>
<th>A61M 25/0012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Improve flexibility of catheters</td>
<td>A61M 25/0054</td>
</tr>
<tr>
<td>Tip steering due to inner reinforcing means</td>
<td>A61M 25/0144</td>
</tr>
</tbody>
</table>

A61M 25/0051
{made from fenestrated or weakened tubing layer}

Definition statement

This place covers:
Catheter tubes reinforced by using an embedded fenestrated additional tube.

References

Limiting references

This place does not cover:

| Reinforcement by embedded coils or braids           | A61M 25/0005 |

A61M 25/0054
{with regions for increasing flexibility}

References

Limiting references

This place does not cover:

| Method of making catheters by weakening parts of a catheter tubing, e.g. by making cuts in the tube or reducing thickness of a layer at one point to adjust the flexibility | A61M 25/0013 |
| Tip steering due to weakening outer material        | A61M 25/0138 |
| Tip steering due to material with different mechanical properties | A61M 25/0141 |

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Catheters having a soft tip                         | A61M 2025/0081 |
A61M 2025/0056
{provided with an antibacterial agent, e.g. by coating, residing in the polymer matrix or releasing an agent out of a reservoir}

References

Limiting references
This place does not cover:

| Drug delivery coatings | A61M 2025/0056 |

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Biological active materials | A61L 29/16 |

A61M 2025/0057
{Catheters delivering medicament other than through a conventional lumen, e.g. porous walls or hydrogel coatings}

Definition statement
This place covers:
Catheters using unconventional ways (i.e. other than delivery through large holes) for medicament delivery, e.g. through porous walls, hydrogel coatings with incorporated medicaments, through coils.

References

Limiting references
This place does not cover:

| Antibacterial coatings | A61M 2025/0056 |
| Side openings | A61M 25/007 |

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Biological active materials | A61L 29/16 |

A61M 2025/0058
{having an electroactive polymer material, e.g. for steering purposes, for control of flexibility, for locking, for opening or closing}

References

Limiting references
This place does not cover:

| Tip steering | A61M 25/0158 |
Informative references

Attention is drawn to the following places, which may be of interest for search:

| Materials for catheters characterised by their function | A61L 29/14 |

A61M 2025/006

{having a special surface topography or special surface properties, e.g. roughened or knurled surface}

Definition statement

This place covers:

Catheters with an unusual surface topography (i.e. other than standard smooth surfaces) for solving technical problems, e.g. roughened surface for increasing friction between tissue and catheter.

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Endoscopes with grooved shaft | A61B 1/00073 |
| Endoscopes with roughened shaft | A61B 1/00075 |

A61M 2025/0062

{having features to improve the sliding of one part within another by using lubricants or surfaces with low friction (coatings A61M 2025/0046)}

Definition statement

This place covers:

Catheters which have specific features to reduce frictions, e.g. roughened surface, lubricants, in use with a second entity, e.g. guidewire.

References

Limiting references

This place does not cover:

| Coatings | A61M 2025/0046 |

A61M 2025/0063

{having means, e.g. stylets, mandrils, rods or wires to reinforce or adjust temporarily the stiffness, column strength or pushability of catheters which are already inserted into the human body}

Definition statement

This place covers:

Means for changing the mechanical properties, that are inserted while the catheter is already in place within the human body
References

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Description</th>
<th>CPC Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catheters or medical tubes with inner stiffening members, which will be</td>
<td>A61M 25/0102</td>
</tr>
<tr>
<td>inserted into the catheter only for insertion or introduction purposes, i.e.</td>
<td></td>
</tr>
<tr>
<td>they will be inserted while the catheter is introduced into the body and</td>
<td></td>
</tr>
<tr>
<td>removed after insertion of the catheter into the body.</td>
<td></td>
</tr>
<tr>
<td>Endoscopes with stiffening means</td>
<td>A61B 1/00078</td>
</tr>
</tbody>
</table>

A61M 25/0067

{characterised by the distal end, e.g. tips (A61M 25/0054, A61M 25/04 take precedence; balloon catheters A61M 25/10)}

References

Limiting references

This place does not cover:

<table>
<thead>
<tr>
<th>Description</th>
<th>CPC Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>With regions for increasing flexibility (takes precedence)</td>
<td>A61M 25/0054</td>
</tr>
<tr>
<td>Tip steering</td>
<td>A61M 25/0133</td>
</tr>
<tr>
<td>Holding in the body (takes precedence)</td>
<td>A61M 25/04</td>
</tr>
<tr>
<td>Balloon catheters</td>
<td>A61M 25/10</td>
</tr>
<tr>
<td>Surgical instruments for transferring non-mechanical energy to the body</td>
<td>A61B 18/00</td>
</tr>
<tr>
<td>(ablation)</td>
<td></td>
</tr>
</tbody>
</table>

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Description</th>
<th>CPC Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distal tips of endoscopes</td>
<td>A61B 1/0008</td>
</tr>
<tr>
<td>Surgical instruments for scraping out cavities of body organs</td>
<td>A61B 17/22</td>
</tr>
</tbody>
</table>

A61M 25/0068

{Static characteristics of the catheter tip, e.g. shape, atraumatic tip, curved tip or tip structure}

Definition statement

This place covers:

- Tip structure can be internal (i.e. inside the lumen) or external (i.e. outside the lumen onto the catheter shaft)
- Curved tip refers to an angled distal tip with respect to the rest of the catheter shaft,
- Tips specially adapted to fit with the anatomy of body channels should not be classified here
- Atraumatic tips which are atraumatic because of their shape (and not because of material choice).
References

Limiting references

This place does not cover:

Pre-formed, e.g. specially adapted to fit with the anatomy of body channels

A61M 25/0041

Special rules of classification

Check whether atraumatic tip should also be classified in A61M 25/008 and/or A61M 2025/0081.

A61M 25/0069

{Tip not integral with tube}

Definition statement

This place covers:

Separate tips either of the same material as the proximal tube and attached by e.g. gluing, welding or of a different material than the proximal tube

A61M 25/007

{Side holes, e.g. their profiles or arrangements; Provisions to keep side holes unblocked}

References

Limiting references

This place does not cover:

Catheter with injection needles

A61M 25/0084

Informative references

Attention is drawn to the following places, which may be of interest for search:

Needles for infusion

A61M 5/158

Side holes for perfusion

A61M 2025/1095

Side holes for perfusion

A61M 2025/1097

A61M 25/0071

{Multiple separate lumens (multiple separate lumens throughout the catheter A61M 25/0026)}

Definition statement

This place covers:

When main catheter lumens split into several lumens only at the distal tip of the catheter.
References

Limiting references
This place does not cover:

Multi-lumen catheters with stationary elements A61M 25/0026

A61M 25/0074

{Dynamic characteristics of the catheter tip, e.g. openable, closable, expandable or deformable}

References

Limiting references
This place does not cover:

Tools at the distal tip A61M 25/0082
Expandable structures for holding within the body A61M 25/04
Balloon catheters A61M 25/10

A61M 25/0075

{Valve means}

Definition statement
This place covers:
Valves at the distal tip

References

Limiting references
This place does not cover:

Cerebrospinal drainage, e.g. valves A61M 27/006

Informative references
Attention is drawn to the following places, which may be of interest for search:

Valves (if the disclosure of the document emphasises the details of a valve) A61M 39/22
A61M 2025/0079

{Separate user-activated means, e.g. guidewires, guide tubes, balloon catheters or sheaths, for sealing off an orifice, e.g. a lumen or side holes, of a catheter}

Definition statement

This place covers:

Only the sealing of a catheter or tube lumen with a separate device

References

Limiting references

This place does not cover:

| Catheter with collapsible lumen                      | A61M 2025/0025 |
| Occlusion of natural lumens                           | A61M 2025/1052 |

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Guide wire having a balloon                           | A61M 2025/09008 |

A61M 2025/0081

{Soft tip}

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Catheters having regions for increasing flexibility   | A61M 25/0054   |

A61M 25/0082

{Catheter tip comprising a tool}

Definition statement

This place covers:

- Tools at the distal tip of a catheter
- A tool is a device which interacts with the surrounding tissue, i.e. it has an impact on the patient
- Tools can be internal (i.e. inside the lumen) or external (i.e. outside the lumen onto the catheter shaft) but linked to the catheter
References

Limiting references
This place does not cover:

Pre-formed, e.g. specially adapted to fit with the anatomy of body channels A61M 25/0041

A61M 25/0084
{being one or more injection needles}

Definition statement
This place covers:
• Catheters with needles for drug delivery into the surrounding tissue
• Catheters with needles for holding and for drug delivery
• If the details of the construction of a catheter with a needle appears to be the "invention" (the technical feature is the "invention"), then it should be classified here

References

Limiting references
This place does not cover:

Drug delivery through needles without catheter A61M 5/00

Informative references
Attention is drawn to the following places, which may be of interest for search:

Endoscopic needles A61B 17/3478

Special rules of classification
Please propose the following classes as well:

Solid needle for holding A61M 2025/0095

Holding in a body lumen A61M 25/04

If the medical treatment of a body with such a catheter appears to be the "invention" (the use is the "invention") A61B 17/3478

If no catheter is disclosed, only drug delivery A61M 5/00
A61M 2025/0086
{the needles having bent tips, i.e. the needle distal tips are angled in relation to the longitudinal axis of the catheter}

Definition statement
This place covers:
A catheter with multiple needles at its distal end. The needles are protruding along the longitudinal axis of the catheter. The tip of the needles themselves are bend out of plane and are therefore no longer parallel to the longitudinal axis of the catheter.

A61M 2025/009
{the needle having a bent tip, i.e. the needle distal tip is angled in relation to the longitudinal axis of the catheter}

Definition statement
This place covers:
A catheter with a single needle at its distal end. The needle is protruding along the longitudinal axis of the catheter. The tip of the needle itself is bend out of plane and is therefore not any longer parallel to the longitudinal axis of the catheter.

A61M 2025/0093
{wherein at least one needle is a microneedle}

References
Limiting references
This place does not cover:

| Details of microneedles                        | A61M 37/0015 |

A61M 2025/0095
{being one or more needles protruding from the distal tip and which are not used for injection nor for electro-simulation, e.g. for fixation purposes}

References
Limiting references
This place does not cover:

| Introducing instruments through an endoscopic needle | A61B 17/3478 |
| Electrodes for stimulation                           | A61N 1/04 |

Informative references
Attention is drawn to the following places, which may be of interest for search:

| Holding in a body lumen                          | A61M 25/04 |
A61M 2025/0096
{being laterally outward extensions or tools, e.g. hooks or fibres}

References

Limiting references
This place does not cover:

<table>
<thead>
<tr>
<th>Item</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catheters with injection needles</td>
<td>A61M 25/0084</td>
</tr>
<tr>
<td>Catheters with solid needles e.g. for holding</td>
<td>A61M 2025/0095</td>
</tr>
<tr>
<td>Electrodes</td>
<td>A61N 1/04</td>
</tr>
</tbody>
</table>

Informative references
Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Item</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surgical instruments for scraping out cavities of body organs</td>
<td>A61B 17/22</td>
</tr>
</tbody>
</table>

A61M 25/0097
{characterised by the hub (connectors A61M 39/10)}

Definition statement
This place covers:
- Hubs for introducing fluid or other devices
- Handles without steering purpose

References

Limiting references
This place does not cover:

<table>
<thead>
<tr>
<th>Item</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Method of connecting a hub to a tubing</td>
<td>A61M 25/0014</td>
</tr>
<tr>
<td>Handles for tip steering</td>
<td>A61M 25/0136</td>
</tr>
</tbody>
</table>

Informative references
Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Item</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tube connectors; tube couplings</td>
<td>A61M 39/10</td>
</tr>
</tbody>
</table>

A61M 25/01
Introducing, guiding, advancing, emplacing or holding catheters (A61M 25/10 takes precedence)

Definition statement
This place covers:
- Dynamic features of catheters and medical tubes, e.g. advancing, guiding, steering
- Holding devices for catheters or medical tubes
- Guide tubes and guide needles
• Guide wires

References

Limiting references

This place does not cover:

Balloon catheter

A61M 25/10

A61M 25/0102

{Insertion or introduction using an inner stiffening member, e.g. stylet or push-rod}

Definition statement

This place covers:

Catheters or medical tubes with inner stiffening members, which will be inserted into the catheter only for insertion or introduction purposes, i.e. they will be inserted while the catheter is introduced into the body and removed after insertion of the catheter into the body.

References

Limiting references

This place does not cover:

Means for changing the mechanical properties, that are inserted while the catheter is already in place within the human body

A61M 2025/0063

A61M 25/0105

{Steering means as part of the catheter or advancing means; Markers for positioning (systems for detection of markers A61B)}

Definition statement

This place covers:

• Steering means for steering the whole catheter, which are part of a catheter and not a separate device
• Markers, which are located on the catheter or medical tube
• If the markers are interesting for the identification of catheters or medical tubes (not marker specially adapted for surgical instruments)

References

Limiting references

This place does not cover:

Tip steering

A61M 25/0133

Radio-opaque markers on guide wires

A61M 2025/09166

Systems for detection of markers, without using radiation or US

A61B 5/06

Systems for detection of markers, using radiation

A61B 6/12

Systems for detection of markers, without using US

A61B 8/0833
Surgical robots for guiding instruments in the body; if the control device of this robots is outside the body of the patient

Markers, which specifically belong to surgical instruments

**Informative references**

Attention is drawn to the following places, which may be of interest for search:

- Radio-opaque indicia
- Endoscopes, for steering device is disclosed

**Special rules of classification**

All markers should additionally be sent to **A61B 90/39**

Steering mechanisms of endoscopes (steering of the whole endoscope body) should be classified as the following:

If the technical feature, which appears to be the invention, is disclosed in a general way, i.e. not limited only to the use with an endoscope, then it should be classified as invention information in **A61M 25/0105**.

If the technical feature, which appears to be the invention, is limited only to the use with an endoscope, but it appears to add a beneficial contribution to the documentation in **A61M 25/0105**, then classify it as additional information in **A61M 25/0105**.

**A61M 25/0108**

{using radio-opaque or ultrasound markers}

**Definition statement**

*This place covers:*

If the markers are interesting for the identification of catheters or medical tubes (not marker specially adapted for surgical instruments)

**References**

**Limiting references**

*This place does not cover:*

- Ultrasound markers, which specifically belong to surgical instruments

**A61M 25/0111**

{Aseptic insertion devices}

**References**

**Limiting references**

*This place does not cover:*

- Tracheal tubes combined with catheters
A61M 25/0113
{Mechanical advancing means, e.g. catheter dispensers}

Definition statement
This place covers:
Devices which are adapted mechanically for moving a catheter in respect to the patient, e.g. catheter dispenser, mechanical catheter insertion devices

References
Limiting references
This place does not cover:
Guide wire insertion devices

A61M 25/0116
{self-propelled, e.g. autonomous robots (A61M 25/0122 takes precedence)}

Definition statement
This place covers:
Self-propelled devices, where the control of such devices is within the device and not outside the patient

References
Limiting references
This place does not cover:
Advancing means having fluid drives by external fluid in an open fluid circuit (takes precedence)

Informative references
Attention is drawn to the following places, which may be of interest for search:
Endoscopes using self-propulsion, e.g. capsule endoscopes, if a camera is part of the device
Micromanipulators

A61M 25/0122
{with fluid drive by external fluid in an open fluid circuit}

References
Limiting references
This place does not cover:
Bodily fluids
Informative references
Attention is drawn to the following places, which may be of interest for search:

Endoscopes using self-propulsion, e.g. capsule endoscopes  A61B 1/00156

A61M 25/0125
{Catheters carried by the bloodstream, e.g. with parachutes; Balloon catheters specially designed for this purpose}

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

Endoscopes using self-propulsion, e.g. capsule endoscopes  A61B 1/00156

A61M 25/0127
{Magnetic means; Magnetic markers}

Definition statement
This place covers:
Magnetic means for guiding a catheter through the body, e.g. system which uses a catheter with a magnet, not marker, and an outer magnetic field for moving the catheter through the body of a patient.

Magnetic markers, which are located on the catheter or medical tube.

References
Limiting references
This place does not cover:

Systems for detection of markers, without using radiation or US  A61B 5/06

Magnetic markers, which specifically belong to surgical instruments  A61B 90/39, A61B 2090/3954

Special rules of classification
Magnetic guidance means and markers are classified here. Detection systems are classified in A61B. The combination of position detection and magnetic guidance means will be classified either here if the invention lies within the guidance, or in A61B if the invention lies in detection, or both here and in A61B if the inventions covers both aspects.
A61M 25/0133

{Tip steering devices}

References

Limiting references

This place does not cover:

| Steering of the whole catheter | A61M 25/0105 |

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Endoscopes | A61B 1/005 |
| Ablation catheters | A61B 18/1492 |

Special rules of classification

Steering mechanisms of endoscopes (steering of the endoscope tip only) should be classified as the following:

If the technical feature, which appears to be the invention, is disclosed in a general way, i.e. not limited only to the use with an endoscope, then it should be classified as invention information in A61M 25/0133 and its sub groups.

If the technical feature, which appears to be the invention, is limited only to the use with an endoscope, but it appears to add a beneficial contribution to the documentation in A61M 25/0133 and its sub groups, then classify it as additional information in A61M 25/0133 and its sub groups.

A61M 25/0138

{having flexible regions as a result of weakened outer material, e.g. slots, slits, cuts, joints or coils}

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Regions for increasing flexibility | A61M 25/0054 |

A61M 25/0141

{having flexible regions as a result of using materials with different mechanical properties}

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Regions for increasing flexibility | A61M 25/0054 |
A61M 25/0144

{having flexible regions as a result of inner reinforcement means, e.g. struts or rods}

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

| Embedded materials | A61M 25/005 |

A61M 25/0152

{with pre-shaped mechanisms, e.g. pre-shaped stylets or pre-shaped outer tubes}

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

| Pre-formed catheters | A61M 25/0041 |

A61M 2025/0175

{having telescopic features, interengaging nestable members movable in relations to one another}

Definition statement

This place covers:

Catheters or medical tubes which can adapt their length thanks to a telescopic structure

References
Limiting references

This place does not cover:

| Concentric catheters; Systems with two or more tubes/catheters within each other in a concentric way | A61M 2025/0004 |
| Systems with catheter and outer tubing | A61M 2025/0681 |

A61M 2025/0177

{having external means for receiving guide wires, wires or stiffening members, e.g. loops, clamps or lateral tubes}

Definition statement

This place covers:

External means, e.g. hooks, loops, for receiving wire shaped objects, except standard rapid exchange or monorail catheters with standard guidewire guiding means, e.g. short tubes
References

Limiting references

This place does not cover:

| Rapid exchange or monorail catheters with standard guidewire guiding means | A61M 2025/0183 |
| Locking guide wires | A61M 2025/09125 |

Special rules of classification

Rapid exchange (rx) or monorail catheters with non standard guidewire guiding means, e.g. hooks, loops, should be classified here and in A61M 2025/0183

A61M 2025/0183

{Rapid exchange or monorail catheters}

Definition statement

This place covers:

Monorail or rapid exchange (rx) catheters have in contrast to the over the wire catheters only a short guidewire lumen which is parallel over a short distance to the catheter tube.

References

Limiting references

This place does not cover:

| Balloon catheters having a guide wire lumens outside the main shaft, i.e. the guide wire lumen is within or on the surface of the balloon | A61M 2025/1056 |

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Balloon catheters | A61M 25/10 |
| Rapid exchange or monorail catheters as well in | A61F 2/95, A61N, A61B 17/00 |

Special rules of classification

Rapid exchange (rx) or monorail catheters with non standard guidewire guiding means, e.g. hooks, loops, should be classified here and in A61M 2025/018

A61M 25/0194

{Tunnelling catheters}

Definition statement

This place covers:

Catheters which have a distal portion that enters the human body, leaving it and entering it again to create a fixation outside the human body
A61M 25/02
Holding devices, e.g. on the body

Definition statement
This place covers:
Holding of catheters, medical tubes and guide wires

A61M 2025/022
{specifically adapted for the mouth}

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

| Mouth                        | A61M 2210/0625 |

A61M 2025/0226
{specifically adapted for the nose}

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

| Nose                        | A61M 2210/0618 |

A61M 2025/0233
{specifically adapted for attaching to a body wall by means which are on both sides of the wall, e.g. for attaching to an abdominal wall}

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

| Fixing Trocars              | A61B 2017/348  |
| Gastrostomy feeding tubes   | A61J 15/0015   |

A61M 2025/0266
{using pads, patches, tapes or the like}

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

| Adhesive plasters           | A61F 13/02     |
A61M 2025/0293

{Catheter, guide wire or the like with means for holding, centering, anchoring or frictionally engaging the device within an artificial lumen, e.g. tube (natural lumen, e.g. vessels A61M 25/04)}

References

Limiting references

This place does not cover:

| Holding within a natural lumen, e.g. vessel | A61M 25/04 |

A61M 25/04

in the body, e.g. expansible { (A61M 25/10, A61M 16/0488 take precedence)}

Definition statement

This place covers:

- Expandable devices for holding (not balloons)
- Other mechanisms

References

Limiting references

This place does not cover:

| Tracheal tubes, means for securing the tubes | A61M 16/0488 |
| Balloon catheters | A61M 25/10 |

A61M 25/06

Body-piercing guide needles or the like

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Needles | A61M 5/158 |
| Needles | A61M 5/32 |
| Trocars; Puncturing needles (usually for introducing bigger sized instruments or tubes) | A61B 17/34 |
**A61M 25/0606**

{"Over-the-needle" catheter assemblies, e.g. I.V. catheters}

**Definition statement**

This place covers:
Systems of a body piercing needle and catheter, catheter will be delivered over the needle for introduction into the body.

**References**

**Limiting references**

This place does not cover:

| Guide needles, where the catheter will be delivered within the needle for introduction into the body | A61M 25/065 |

**A61M 25/0612**

{Devices for protecting the needle; Devices to help insertion of the needle, e.g. wings or holders}

**Definition statement**

This place covers:
Needle protection devices, only if a catheter is part of the device.

**References**

**Limiting references**

This place does not cover:

| Needle protection devices for assemblies without catheters | A61M 5/321 |

**A61M 25/0631**

{having means for fully covering the needle after its withdrawal, e.g. needle being withdrawn inside the handle or a cover being advanced over the needle}

**References**

**Informative references**

Attention is drawn to the following places, which may be of interest for search:

| Retractable needles | A61M 5/322 |
A61M 25/065

{Guide needles}

Definition statement

This place covers:
• Needles for the introduction of catheters, medical tubes or guide wires into the body; catheter will be delivered within the needle for introduction into the body
• Catheters with needle-shaped tips

References

Limiting references

This place does not cover:

"Over-the-needle" catheter assemblies

Informative references

Attention is drawn to the following places, which may be of interest for search:

Body piercing needles (usually for introducing bigger sized instruments or tubes)

A61M 25/0662

{Guide tubes}

Definition statement

This place covers:
• Guide tubes are larger than guide needles
• Guide tubes are usually made out of plastics
• Guide tubes usually do not have a piercing tip

References

Limiting references

This place does not cover:

"Over-the-needle" catheters
Guide needles

Informative references

Attention is drawn to the following places, which may be of interest for search:

Guide tubes for endoscopes
Guiding arrangements for endoscopes (this group is less relevant for the search for guide tubes; a search in A61B 1/01 should only take place if nothing could be found!)
A61M 2025/0675
{Introducing-sheath slitters}

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

| Apparatus for cutting tubes longitudinally | B26D 3/001 |

A61M 2025/0687
{having means for atraumatic insertion in the body or protection of the tip of the sheath during insertion, e.g. special designs of dilators, needles or sheaths}

Special rules of classification
Documents which disclose special designs of dilators should be classified in A61M 29/00 as well.

A61M 25/0693
{Flashback chambers}

Definition statement
This place covers:
A flashback chamber is a small chamber connected to a needle in a catheter assembly, which will be filled with blood if a vessel is punctured for indicating the correct insertion of the assembly.

References
Limiting references
This place does not cover:

| Devices for taking blood samples | A61B 5/15 |

Informative references
Attention is drawn to the following places, which may be of interest for search:

| Devices for taking blood samples provided with indicating means | A61B 5/1422 |

A61M 25/09016
{with mandrils}

Definition statement
This place covers:
Guide wire comprising a core wire and an additional wire, which is connected to the core wire or proceed parallel to the core wire, e.g. for different mechanical properties.
**A61M 25/09025**
{with sliding mandrils}

**Definition statement**
This place covers:
Guide wire with a movable additional wire, not core wire, within the guide wire, e.g. for steering.

**A61M 25/09041**
{Mechanisms for insertion of guide wires}

**References**

**Limiting references**
This place does not cover:

| Mechanisms for the insertion of catheters | A61M 25/0113 |

**A61M 25/0905**
{extendable, e.g. mechanisms for extension}

**Definition statement**
This place covers:
Guide wires with variable length

**A61M 2025/09108**
{Methods for making a guide wire}

**Definition statement**
This place covers:
- Methods and processes of making and manufacturing of guidewires
- This group covers as well apparatus for manufacturing, which are specifically used for producing guidewires

**References**

**Limiting references**
This place does not cover:

| Methods of making catheters | A61M 25/0009 |
| Methods of making balloon catheters | A61M 25/1027 |

**Informative references**
Attention is drawn to the following places, which may be of interest for search:

| Drawing wires | B21C 1/02 |
| Specifics of dies | B21C 3/02 |
| Manufacturing of fine wires | B21C 37/047 |
Coiling wire  B21F 3/00
Twisting wire  B21F 7/00
Cutting wire  B21F 11/00
Connecting wire with wire  B21F 15/02
Metallic coating of wire  B21F 19/00
Heat treatment  C21D 1/00
Modifying physical properties of steel by cold working  C21D 7/02

**A61M 2025/09125**

{Device for locking a guide wire in a fixed position with respect to the catheter or the human body}

**Definition statement**

*This place covers:*

Locks within and/or outside a catheter or human body

**A61M 2025/09166**

{having radio-opaque features}

**References**

*Informative references*

Attention is drawn to the following places, which may be of interest for search:

| Radio-opaque markers on catheters | A61M 25/0108 |

**A61M 25/10**

Balloon catheters ({A61M 25/0125 takes precedence; embolectomy A61B 17/22032; retractors A61B 17/02;} inflatable balloons for placing stents or stent-grafts A61F 2/958 {; stomach balloons for treatment of obesity A61F 5/0003; oesophagal tubes A61J 15/00})

**Definition statement**

*This place covers:*

Mechanical and structural features of balloon catheters and balloons for catheters.

Methods for making balloon catheters.

**References**

*Limiting references*

This place does not cover:

| Catheters carried by the bloodstream, e.g. with parachutes; Balloon catheters specially designed for this purpose (takes precedence) | A61M 25/0125 |

| Retractor | A61B 17/02 |
Informative references

Attention is drawn to the following places, which may be of interest for search:

| Temporary occlusion for surgery | A61B 17/1204 |
| Surgical occlusion balloons     | A61B 17/12136 |
| Scraping balloon                | A61B 2017/22051 |
| Cutting balloons                | A61B 17/320725: A61B 17/32075 |
| Balloons for stent delivery     | A61F 2/958 |
| Balloons for radiation therapy  | A61N 2005/1003 |

A61M 25/1002

{characterised by balloon shape (A61M 25/1006, A61M 25/1009 take precedence)}

References

Limiting references

This place does not cover:

| Balloons formed between concentric tubes | A61M 25/1006 |
| Balloons anchored to a disk or plate    | A61M 25/1009 |

A61M 25/1011

{Multiple balloon catheters}

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Occlusion balloons                  | A61M 2025/1052 |
| Surgical occlusion balloons         | A61B 17/12136 |

A61M 25/1018

{Balloon inflating or inflation-control devices}

Definition statement

This place covers:

Balloon inflating or inflation control devices and balloon deflation and deflation control devices
References

Limiting references
This place does not cover:

<table>
<thead>
<tr>
<th>Intra-arterial balloon pumps</th>
<th>A61M 1/1072</th>
</tr>
</thead>
<tbody>
<tr>
<td>Systems for priming balloon catheters</td>
<td>A61M 2025/1077</td>
</tr>
</tbody>
</table>

A61M 25/1027

{Making of balloon catheters}

Definition statement
This place covers:
This group covers as well apparatus for manufacturing, which are specifically used for producing balloon catheters

References

Limiting references
This place does not cover:

<table>
<thead>
<tr>
<th>Making of catheters</th>
<th>A61M 25/0009</th>
</tr>
</thead>
<tbody>
<tr>
<td>Method of making a guide wire</td>
<td>A61M 2025/09108</td>
</tr>
<tr>
<td>Making of surgical instruments</td>
<td>A61B 17/00</td>
</tr>
<tr>
<td>Making of surgical instruments for transferring non-mechanical forms of energy (specific features for such devices, e.g. electrodes, cryotips)</td>
<td>A61B 18/00</td>
</tr>
</tbody>
</table>

Informative references
Attention is drawn to the following places, which may be of interest for search:

| Devices for applying a coating | B05C |
| Process for applying a coating | B05D |
| Cutting tools | B26B |

For a single-step process, or a specific step in a multi-step process:

| Injection moulding | B29C 45/00 |
| Extrusion moulding | B29C 48/00 |
| Blow moulding | B29C 49/00 |
| Shaping by stretching, e.g. drawing though a die | B29C 55/22 |
| Shaping of tube ends | B29C 57/00 |
| Lining or sheathing | B29C 63/00 |
| Joining (please contact the gérant in this field if a search must be done here) | B29C 65/00 |
For a multi-step process:

| Producing tubular articles | B29D 23/00 |

Special rules of classification

If a process leads to an interesting product, classify as well in the relevant Indexing Code group

**A61M 2025/1031**

{Surface processing of balloon members, e.g. coating or deposition; Mounting additional parts onto the balloon member's surface}

**References**

*Informative references*

Attention is drawn to the following places, which may be of interest for search:

| Cutting balloons | A61B 17/320725, A61B 17/32075 |
| Devices for applying a coating | B05C |
| Process for applying a coating | B05D |

**A61M 25/1034**

{Joining of shaft and balloon}

**References**

*Informative references*

Attention is drawn to the following places, which may be of interest for search:

| Joining | B29C 65/00 |

**A61M 25/1036**

{Making parts for balloon catheter systems, e.g. shafts or distal ends (A61M 25/1029 takes precedence)}

**Definition statement**

*This place covers:*

Methods for making parts of balloon catheters, except balloons.

This group covers as well apparatus for manufacturing, which are specifically used for producing parts of balloon catheters, except of balloons

**References**

*Limiting references*

*This place does not cover:*

| Production methods of balloon member | A61M 25/1029 |
**A61M 25/104**

{used for angioplasty}

**Definition statement**

_This place covers:_

Balloon catheters, which are used for angioplasty (PTA, PTCA)

**References**

**Limiting references**

_This place does not cover:_

Expandable dilators (e.g. balloons, struts) not used for angioplasty

**Special rules of classification**

Classify balloon dilators for angioplasty as well in IPC A61M 29/02

**A61M 2025/1045**

{for treating bifurcations, e.g. balloons in y-configuration, separate balloons or special features of the catheter for treating bifurcations}

**Definition statement**

_This place covers:_

- Balloon catheters for treating bifurcations
- Other means for treating bifurcations

**A61M 2025/1052**

{for temporarily occluding a vessel for isolating a sector}

**References**

**Informative references**

Attention is drawn to the following places, which may be of interest for search:

| Temporary occlusion for surgery | A61B 17/1204 |
| Surgical occlusion balloons     | A61B 17/12136 |

**A61M 2025/1054**

{having detachable or disposable balloons}

**References**

**Informative references**

Attention is drawn to the following places, which may be of interest for search:

| Stomach balloons for treatment of obesity | A61F 5/0003 |
**A61M 2025/1079**

{having radio-opaque markers in the region of the balloon}

**References**

**Informative references**

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Reference Description</th>
<th>CPC Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radio-opaque markers on catheters</td>
<td>A61M 25/0108</td>
</tr>
<tr>
<td>Radio-opaque markers on guide wires</td>
<td>A61M 2025/09166</td>
</tr>
<tr>
<td>Radio-opaque markers</td>
<td>A61B 90/39</td>
</tr>
</tbody>
</table>

**A61M 2025/1081**

{having sheaths or the like for covering the balloon but not forming a permanent part of the balloon, e.g. retractable, dissolvable or tearable sheaths}

**References**

**Informative references**

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Reference Description</th>
<th>CPC Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sheaths for balloon length adjustment</td>
<td>A61M 2025/1068</td>
</tr>
<tr>
<td>Stent covering sheaths</td>
<td>A61F 2/962</td>
</tr>
</tbody>
</table>

**A61M 2025/1086**

{having a special balloon surface topography, e.g. pores, protuberances, spikes or grooves}

**References**

**Informative references**

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Reference Description</th>
<th>CPC Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scraping balloon</td>
<td>A61B 2017/22051</td>
</tr>
<tr>
<td>Cutting balloons</td>
<td>A61B 17/320725, A61B 17/32075</td>
</tr>
</tbody>
</table>

**A61M 2025/109**

{having balloons for removing solid matters, e.g. by grasping or scraping plaque, thrombus or other matters that obstruct the flow}

**References**

**Informative references**

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Reference Description</th>
<th>CPC Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scraping balloon</td>
<td>A61B 2017/22051</td>
</tr>
</tbody>
</table>
Cutting balloons

A61M 27/00

Drainage appliances for wounds or the like, {i.e. wound drains, implanted drains} (implements for holding wounds open A61B 17/02; {middle ear drainage A61F 11/002; other drainage devices A61M 1/00})

Definition statement

This place covers:

- Wound drainage tubes.
- Systems for temporarily by-passing an vessel area with at least a part of circuit outside the body, e.g. for performing a surgical treatment in the by-passed area.

References

Limiting references

This place does not cover:

- Wound drainage systems (with negative pressure or suction) A61M 1/0088
- Implements for holding wounds open A61B 17/02
- Middle ear drainage A61F 11/002

Informative references

Attention is drawn to the following places, which may be of interest for search:

- Multi-lumen catheters A61M 25/0026
- Valve means for lumen inflow A61M 2025/0078

Special rules of classification

The term "wound" covers all injuries of the skin which originate from the impact of outer forces to the body, e.g. during a surgery, during an accidents.

A61M 27/002

{Implant devices for drainage of body fluids from one part of the body to another (intraocular A61F 9/00781; middle ear A61F 11/002})

Definition statement

This place covers:

Implantable drainage tubes, e.g. shunts

References

Limiting references

This place does not cover:

- Anastomosis A61B 17/11
Intraocular drainage

**A61M 27/006**

{Cerebrospinal drainage; Accessories therefor, e.g. valves}

**References**

*Informative references*

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Topic</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subcutaneous access sites for injecting or removing fluids</td>
<td>A61M 39/0208</td>
</tr>
</tbody>
</table>

**A61M 27/008**

{pre-shaped, for use in the urethral or ureteral tract}

**Definition statement**

This place covers:

Urethral or ureteral pre-shaped stents for draining

**A61M 29/00**

Dilators with or without means for introducing media, e.g. remedies (instruments for performing visual medical inspections of cavities or tubes of the body **A61B 1/00**)

**Definition statement**

This place covers:

Dilators, which do not change their shapes

**References**

*Limiting references*

This place does not cover:

<table>
<thead>
<tr>
<th>Topic</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balloon dilators used for angioplasty</td>
<td>A61M 25/104</td>
</tr>
<tr>
<td>Expandable dilators, e.g. balloons not used for angioplasty, struts</td>
<td>A61M 29/02</td>
</tr>
</tbody>
</table>

**A61M 29/02**

Dilators made of swellable material { (balloon catheters for angioplasty **A61M 25/104**) }

**Definition statement**

This place covers:

Expandable dilators, e.g. balloons not used for angioplasty, struts.
A61M 31/00

Devices for introducing or retaining media, e.g. remedies, in cavities of the body (A61M 25/00 takes precedence (introducing or retaining ophthalmic products into the ocular cavities A61F 9/0008))

Definition statement
This place covers:
Introducing or retaining medias in natural cavities, e.g. nose, anus, ear, vagina.

References

Limiting references
This place does not cover:

| Introducing or retaining medias in vessels                      | A61M 25/00           |
| Introducing or retaining ophthalmic products into the ocular cavities | A61F 9/0008          |
| Injector for tampons                                           | A61F 13/20           |
| Tablets, pills                                                 | A61J 3/00            |
| Feeding devices                                                | A61J 15/0015         |

A61M 31/002

{Devices for releasing a drug at a continuous and controlled rate for a prolonged period of time (artificial gland structures or devices A61F 2/022; intra-uterine contraceptive devices A61F 6/14; tampons for introducing into the vagina A61F 13/20, A61L 15/00; suppositories or bougies for intra-vaginal or intra-uterine application A61K 9/02; physical forms of medicinal preparations for sustained or differential drug release A61K 9/20, A61K 9/50)}

Definition statement
This place covers:
• Tampons with drug delivery.
• Electronic pills with drug delivery.
• Other devices for releasing a drug in a natural cavity.

References

Limiting references
This place does not cover:

| Artificial gland structures or devices                        | A61F 2/022          |
| Intra-uterine contraceptive devices                           | A61F 6/14           |
| Suppositories or bougies for intra-vaginal or intra-uterine application | A61K 9/02   |
| Medicinal preparations for sustained or differential drug release | A61K 9/20, A61K 9/50 |
Informative references

Attention is drawn to the following places, which may be of interest for search:

| Endoscopes using self-propulsion, e.g. capsule endoscopes | A61B 1/00156 |
| Electronic pills | A61B 5/073 |

A61M 35/00

Devices for applying {e.g. spreading,} media, e.g. remedies, on the human body (devices for handling toilet or cosmetic substances A45D; absorbent pads, e.g. swabs {for medical use}, A61F 13/15)

Definition statement

This place covers:

Devices only for applying drugs, including antiseptics, sun protection lotions and self-tanning lotions onto the body and onto wounds.

This group does not cover devices which enhance the permeability of the skin, for example by iontophoresis or phonophoresis.

References

Limiting references

This place does not cover:

| Devices for handling toilet or cosmetic substances | A45D |
| Absorbent pads, e.g. swabs, for medical use, in general | A61F 13/15 |

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Apparatus for applying media using vibrations | A61M 37/0092 |
| Bathing devices, in general | A61H 33/00 |
| Baths for specific parts of the body, in general | A61H 35/00 |
| Transdermal patches with drugs | A61K 9/7023 |
| Apparatus for iontophoresis | A61N 1/30 |

A61M 35/003

{Portable hand-held applicators having means for dispensing or spreading integral media (hand-held massage devices with liquid delivery A61H 7/003)}

Definition statement

This place covers:

Handheld devices only for applying drugs, including antiseptics, onto the body and onto wounds. The drug to be applied is an integral part of the applicator.
For example:

References

Limiting references

This place does not cover:

| Hand-held massage devices with liquid delivery | A61H 7/003 |

Informative references

Attention is drawn to the following places, which may be of interest for search:

| Apparatus with means for delivering media, e.g. drugs or cosmetics | A61H 2201/105 |
| Hand tools for applying fluent material to surfaces, in general | B05C 17/00 |
| Container closures with pads or like contents-applying means, in general | B65D 47/42 |

A61M 35/006

{using sponges, foams, absorbent pads or swabs as spreading means}

Definition statement

This place covers:

Portable hand-held applicators using sponges, foams or absorbent pads or swabs specifically used as spreading means, however not absorbent pads or swabs in general.
For example:

**Figure 1**
A61M 35/10
{Wearable devices, e.g. garments, glasses or masks}

Definition statement

This place covers:

For example:
References

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Category</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Garments, in general</td>
<td>A41D 1/00</td>
</tr>
<tr>
<td>Garments for therapeutic use</td>
<td>A41D 2400/32</td>
</tr>
<tr>
<td>Hats, caps, hoods, in general</td>
<td>A42B 1/00</td>
</tr>
<tr>
<td>Goggles, in general</td>
<td>A61F 9/02</td>
</tr>
<tr>
<td>Eye masks, in general</td>
<td>A61F 9/04</td>
</tr>
<tr>
<td>Bandages or dressings</td>
<td>A61F 13/00</td>
</tr>
<tr>
<td>Glasses, in general</td>
<td>G02C</td>
</tr>
</tbody>
</table>
A61M 35/20

{Non-portable devices, e.g. spraying booths}

Definition statement

This place covers:

For example:

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Spraying apparatus, in general</th>
<th>B05B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coin operated apparatus for spraying fluids, in general</td>
<td>G07F 13/08</td>
</tr>
</tbody>
</table>

A61M 35/25

{specially adapted for the application of sunscreen, tanning or self-tanning lotions}

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Apparatus for tanning the skin using electromagnetic radiation</th>
<th>A61N 5/0614</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spraying apparatus, in general</td>
<td>B05B</td>
</tr>
<tr>
<td>Coin operated apparatus for spraying fluids, in general</td>
<td>G07F 13/08</td>
</tr>
</tbody>
</table>
A61M 35/30
{Gas therapy for therapeutic treatment of the skin}

Definition statement
This place covers:
For example:

References
Informative references
Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Description</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bathing devices, in general</td>
<td>A61H 33/00</td>
</tr>
<tr>
<td>Baths for specific parts of the body, in general</td>
<td>A61H 35/00</td>
</tr>
</tbody>
</table>
A61M 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); Percutanly, i.e. introducing medicines into the body by diffusion through the skin (salt baths A61H 33/04)

Definition statement

This place covers:

Devices for introducing substances (mainly drugs) into the body through artificial openings, e.g. thanks to puncturing with needles, thanks to application of ultrasound

References

Limiting references

This place does not cover:

<table>
<thead>
<tr>
<th>Device</th>
<th>CPC Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Implantable pumps</td>
<td>A61M 5/14276</td>
</tr>
<tr>
<td>Syringes</td>
<td>A61M 5/178</td>
</tr>
<tr>
<td>Reproduction or fertilisation</td>
<td>A61B 17/425</td>
</tr>
<tr>
<td>Salt baths</td>
<td>A61H 33/04</td>
</tr>
<tr>
<td>Iontophoresis or cataphoresis</td>
<td>A61N 1/30</td>
</tr>
</tbody>
</table>

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Device</th>
<th>CPC Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vaccination needles</td>
<td>A61B 17/205</td>
</tr>
<tr>
<td>Acupuncture</td>
<td>A61H 39/08</td>
</tr>
</tbody>
</table>

A61M 2037/0007

{having means for enhancing the permeation of substances through the epidermis, e.g. using suction or depression, electric or magnetic fields, sound waves or chemical agents}

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Device</th>
<th>CPC Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultrasound, e.g. phonophorese</td>
<td>A61M 37/0092</td>
</tr>
<tr>
<td>Iontophoresis or cataphoresis</td>
<td>A61N 1/30</td>
</tr>
</tbody>
</table>

A61M 37/0015

{by using microneedles}

Relationships with other classification places

Please propose the following classes as well:
Drug coated or drug delivering microneedles with specific drugs

A61K 9/0021

A61M 2037/0053

{Methods for producing microneedles}

Relationships with other classification places
Please propose the following classes as well (if applicable):

Shaping techniques
B29C 67/00

Manufacture or treatment of devices or systems in or on a substrate
B81C 1/00

A61M 37/0069

{Devices for implanting pellets, e.g. markers or solid medicaments (for introducing of radioactive sources for interstitial radiation therapy, i.e. brachytherapy A61N 5/1027)}

Definition statement
This place covers:
Solid implants, e.g. solid medicaments, marker, etc., and devices for implanting solid implants into the body invasively

References

Limiting references
This place does not cover:

Radioactive implants and devices which are used only for implantation of radioactive implants (special sizes, shapes, radiation protection, etc.) A61N 5/1001

Informative references
Attention is drawn to the following places, which may be of interest for search:

| Cannula for implanting or removing devices | A61B 17/3468 |
| Solid drug implants                          | A61K 9/0024 |

A61M 37/0076

{Tattooing apparatus (apparatus for marking animals A01K 11/00; vaccine applicators having needles or other puncturing means A61B 17/205)}

Definition statement
This place covers:
• Devices for applying permanent tattoos.
• Devices for applying temporary tattoos.
Devices for applying temporary tattoos without using needles, e.g. adhesive tattoos.

**References**

**Limiting references**

This place does not cover:

<table>
<thead>
<tr>
<th>Device Type</th>
<th>CPC Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apparatus for marking animals</td>
<td>A01K 11/00</td>
</tr>
<tr>
<td>Vaccination needles</td>
<td>A61B 17/205</td>
</tr>
</tbody>
</table>

**A61M 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)

**Definition statement**

This place covers:

Access sites (subcutaneous or transcutaneous), haemostasis valves, medical tubes and means for storage of said tubes, tube connectors, caps or plugs for tubes or connectors, valves and clamping means for medical tubes.

**References**

**Limiting references**

This place does not cover:

<table>
<thead>
<tr>
<th>Device Type</th>
<th>CPC Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connecting needles to syringes</td>
<td>A61M 5/34</td>
</tr>
<tr>
<td>Tracheal tubes (respiratory tubes)</td>
<td>A61M 16/04, A61M 16/08</td>
</tr>
<tr>
<td>Respiratory valves</td>
<td>A61M 16/20</td>
</tr>
<tr>
<td>Connecting catheter tubes to hubs</td>
<td>A61M 25/0014</td>
</tr>
<tr>
<td>Vascular valves</td>
<td>A61F 2/24 - A61F 2/2496</td>
</tr>
</tbody>
</table>

**Informative references**

Attention is drawn to the following places, which may be of interest for search:

<table>
<thead>
<tr>
<th>Device Type</th>
<th>CPC Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tube strippers</td>
<td>A61M 1/0078</td>
</tr>
<tr>
<td>Peritoneal dialysis catheter</td>
<td>A61M 1/285</td>
</tr>
<tr>
<td>Fistulas</td>
<td>A61M 1/3655</td>
</tr>
<tr>
<td>Regulating valves in infusion systems</td>
<td>A61M 5/16881</td>
</tr>
<tr>
<td>Resheathing means for used needles</td>
<td>A61M 5/321</td>
</tr>
<tr>
<td>Locating means to allow access to septum</td>
<td>A61M 5/427</td>
</tr>
<tr>
<td>Tracheotomy devices</td>
<td>A61M 16/0465</td>
</tr>
<tr>
<td>Measuring pressure within body</td>
<td>A61B 5/03</td>
</tr>
<tr>
<td>Cranial plugs</td>
<td>A61B 2090/103</td>
</tr>
<tr>
<td>Colostomy devices</td>
<td>A61F 5/445</td>
</tr>
<tr>
<td>Gastroscopy feeding tubes</td>
<td>A61J 15/0015</td>
</tr>
</tbody>
</table>
Method or apparatus for disinfecting or sterilizing A61L 2/00
Screw clamps in general F16K 7/061
Lever clamps in general F16K 7/063
Camp clamps in general F16K 7/065
Wedge clamps in general F16K 7/066
Tube cut-off devices by bending or twisting the tube in general F16K 7/068
Starling valves in general F16K 7/07
Multiway valves in general F16K 11/08
Swivel nut connector (screw threaded joint) in general F16L 15/00
Union screw connector (sealing surfaces pressed together by means of a member) in general F16L 19/00
Rotating or swivel joints in general F16L 27/00
Connecting hose to rigid members in general F16L 33/00
Quick-acting type connectors in general F16L 37/00
Multi-channel connectors in general F16L 37/56

Special rules of classification

The classification of "additional information" in the field is mandatory, but only if the additional information has some importance.

For example, the main invention is an access site (A61M 39/02), but a valve (A61M 39/22) is present in the device. If the valve is just a common check valve with no specific details, then it is not worth giving a class in the field of valves. On the contrary, if the check valve is well described and presents some interesting features, then the document should also be classified in the field of valves.

Further details of subgroups

A61M 39/02
This subgroup contains the access sites. They are divided in two main categories: the subcutaneous access sites (A61M 39/0208) that are implanted under the skin and are therefore invisible to the user; and the transcutaneous access sites (A61M 39/0247) that actually go through the skin and that therefore have a part exposed to the outside. Historically the transcutaneous access sites were in an other field, they have been recently regrouped with the subcutaneous access sites. A61M 39/0208 still contains documents that would now belong in A61M 39/0247 but that were put in A61M 39/0208 at a time where A61M 39/0247 did not yet exist.

A61M 39/06
Haemostatis valves.

A61M 39/10
This subgroup regroups all kinds of medical connectors (except respiratory connectors that can be found in A61M 16/08). Some of the subdivisions of this subgroup mirror the way in which the general connectors are classified in F16L. Other subdivisions are more specific to the medical connectors.

A61M 39/24
This subgroup contains medical check valves that are mostly classified by the way in which the check valve works, i.e. what kind of element (hinged member, flexible disc, ball, stem etc.) is used inside the
valve to get the desired "non-return effect". Again here, the subdivisions in this subgroup mirror the subdivisions of the group F16K 15/00 that contains general check valves.

**A61M 39/26**

This subgroup contains valve closing automatically on disconnecting the line and opening on reconnection. Part of the subdivisions deals with the way in which the fluid space inside the valve is affected by disconnection. It can be difficult to find that information in the document to be classified, therefore extra-care is required when classifying in this subgroup.

**A61M 39/28**

This subgroup contains medical clamps for squeezing flexible tubes. Again here, the subdivisions in this subgroup mirror the subdivisions of the group F16K 7/00 that contains general clamps.