COOPERATIVE PATENT CLASSIFICATION

A HUMAN NECESSITIES

HEALTH; AMUSEMENT

A61 MEDICAL OR VETERINARY SCIENCE; HYGIENE

A61H PHYSICAL THERAPY APPARATUS, e.g. DEVICES FOR LOCATING OR STIMULATING REFLEX POINTS IN THE BODY; ARTIFICIAL RESPIRATION; MASSAGE; BATHING DEVICES FOR SPECIAL THERAPEUTIC OR HYGIENIC PURPOSES OR SPECIFIC PARTS OF THE BODY (electrotherapy, magnetotherapy, radiation therapy, ultrasound therapy A61N)

NOTE

In this subclass, the following expression is used with the meaning indicated:
• “physical therapy” covers the treatment of disease or disability by means, e.g. mechanical means, as opposed to drugs or surgery. It includes, by way of example, massage, whirlpool baths or devices for exercising a passive body member.

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

1/00 Apparatus for passive exercising (A61H 5/00 takes precedence); Vibrating apparatus (driving means for vibrating A61H 23/00); Chiropractic devices, e.g. body impacting devices, external devices for briefly extending or aligning unbroken bones

NOTE

This group does not cover orthopaedic methods or devices, which are covered by group A61F 5/00.

1/001 . . [Apparatus for applying movements to the whole body]
1/003 . . [Rocking or oscillating around a horizontal axis transversal to the body]
1/005 . . [Moveable platform, e.g. vibrating or oscillating platform for standing, sitting, laying, leaning]
1/006 . . [Apparatus for applying pressure or blows for compressive stressing of a part of the skeletal structure, e.g. for preventing or alleviating osteoporosis]
1/008 . . [Apparatus for applying pressure or blows almost perpendicular to the body or limb axis, e.g. chiropractic devices for repositioning vertebræ, correcting deformation]
1/02 . . [Stretching or bending (or torsioning) apparatus for exercising]

NOTE

In this group, documents which are of interest for more than one subgroup are classified in the hierarchically higher group only, unless there is a specific group for the combination.

2001/0203 . . [Rotation of a body part around its longitudinal axis]
2001/0207 . . [Nutation movement of a body part around its articulation]
2001/0211 . . [Walking coordination of arms and legs]
Appliances for aiding patients or disabled persons to walk about (apparatus for helping babies to walk A61D 13/04: orthopaedic devices for correcting deformities of, or supporting, limbs A61F 5/0102: exercising apparatus for the feet or toes A63B 23/10: stairways or ramps E04F 11/00))

- [neck]
- [trusses]
- [with knee, leg or stump rests]
- [with forearm rests, i.e. for non-used arms]
- [secured to the patient, e.g. with belts]
- [with attached or incorporated article carrying means]
- [umbrellas]
- [trays]
- [steps]
- [on steps or stairways]
- [crutches]
- [crutches with no pivoting movement during use, e.g. tripods]
- [crutches in which movement is limited to a pivoting in one plane, e.g. 2-point supports]
- [crutches in which movement is limited to a pivoting in one plane, e.g. 2-point supports]
- [convertible from armpit- into forearm-model]
- [convertible from armpit crutch into cane]
- [convertible from forearm crutch into cane]
- [arrangements for storing or keeping upright when not in use]
- [crutches with devices for securing a pair of crutches together]
- [on a single crutch for being fixed on or supported by a wall, furniture or the like]
- [on walls or furniture for receiving single crutches]
- [with magnetic fixing]
- [on a single crutch allowing it to remain upright when not in use, e.g. retractable tripods (A61H 2003/0205 takes precedence)]
- [shock absorbers therefor]
- [using elastomeric material]
- [ferrules or tips therefor (for walking sticks or umbrellas A45B 9/04)]
- [comprising a ball-and-socket joint]
- [wheel or drum]
- [on a single crutch]
- [on a single crutch]
- [crutches]
- [crutches]
- [in an upright walking or standing position, e.g. harnesses (drawing-out devices A61H 1/0218)]
- [crutches]
- [crutches with no pivoting movement during use, e.g. tripods]
- [crutches in which movement is limited to a pivoting in one plane, e.g. 2-point supports]
- [crutches in which movement is limited to a pivoting in one plane, e.g. 2-point supports]
- [convertible from armpit- into forearm-model]
- [convertible from armpit crutch into cane]
- [convertible from forearm crutch into cane]
- [arrangements for storing or keeping upright when not in use]
- [crutches with devices for securing a pair of crutches together]
- [on a single crutch for being fixed on or supported by a wall, furniture or the like]
- [on walls or furniture for receiving single crutches]
- [with magnetic fixing]
- [on a single crutch allowing it to remain upright when not in use, e.g. retractable tripods (A61H 2003/0205 takes precedence)]
- [shock absorbers therefor]
- [using elastomeric material]
- [ferrules or tips therefor (for walking sticks or umbrellas A45B 9/04)]
- [comprising a ball-and-socket joint]
- [wheel or drum]
- [on a single crutch]
- [on a single crutch]

Massage (of the heart A61H 31/00: accessories for massage A61H 37/00: electro-medical massage devices applying electric current by contact A61N 1/18)

- [without substantial movement between the skin and the device]
- [by rubbing or brushing]
- [hand-held or hand-driven devices]
- [power-driven, e.g. electrical]
- [hand-held]
- [helmets for head-massage (baths for the head A61H 35/008; washing, rinsing, drying A45D)]
- [kneading]
- [suction kneading]
- [having massage elements rotating on parallel output axis]

Pneumatic or hydraulic massage

- [pulsating]
- [with particles, e.g. sand]
- [hydraulic massage]

WARNING

Group A61H 9/0021 is incomplete pending reclassification of documents from group A61H 9/0028.

Group A61H 9/0021 is also impacted by reclassification into group A61H 9/0028.

Groups A61H 9/0021 and A61H 9/0028 should be considered in order to perform a complete search.

- [hand-held devices for spraying and removing liquid while moved on the skin]

WARNING

Group A61H 9/0028 is incomplete pending reclassification of documents from group A61H 9/0021.

Group A61H 9/0028 is also impacted by reclassification into group A61H 9/0021.

Groups A61H 9/0028 and A61H 9/0021 should be considered in order to perform a complete search.

- [with cabin for the whole body]
- [with water recirculation]
- [pneumatic massage]
- [suction (suction kneading A61H 7/008)]
- [suction by releasing a flexible cup after deformation, i.e. without further vacuum source]
- [by localized pressure, e.g. air streams or jets]
- [with intermittent or alternately inflated bladders or cuffs (mattresses for preventing bed-sores with alternated pressurized chambers A61G 7/05776)]
- [inflated by user's body movement, e.g. ambulatory devices]
- [cuffs therefor]

Belts, strips or combs for massage purposes
Massage

2011/005 . (with belt or strap expanding and contracting around an encircled body part)
11/02 . Massage devices with strips oscillating lengthwise

13/00 Gum massage
13/005 . (Hydraulic gum massage)

15/00 Massage by means of rollers, balls, e.g. inflatable, chains, or roller chains
2015/0007 . (with balls or rollers rotating about their own axis)
2015/0014 . (cylinder-like, i.e. rollers)
2015/0021 . (multiple on the same axis)
2015/0028 . (disc-like, i.e. diameter substantially greater than width)
2015/0035 . (multiple on the same axis)
2015/0042 . (Balls or spheres)
2015/005 . (multiple on the same axis)
2015/0057 . (the axis being resiliently biased)
2015/0064 . (with freely rotating spheres)
2015/0071 . (with balls or rollers having built-in vibrating means)

15/0078 . (power-driven)
15/0085 . (hand-held)
15/0092 . (hand-held (A61H 15/0085 takes precedence))
15/02 . adapted for simultaneous treatment with light, heat or drugs

19/00 Massage for the genitals; Devices for improving sexual intercourse (penis erection devices A61F 5/41; vibration or percussion related aspects A61H 23/000)
19/30 . (Devices for external stimulation of the genitals)
19/32 . (for inserting the genitals therein, e.g. vibrating rings for males or breast stimulating devices)
19/34 . (For clitoral stimulation)
19/40 . (Devices insertable in the genitals)
19/44 . (Having substantially cylindrical shape, e.g. dildos)
19/50 . (Devices for use during sexual intercourse)

21/00 Massage devices for cavities of the body, e.g. nose, ears and anus (for the genitals A61H 19/000; Vibration or percussion related aspects A61H 23/000)

23/00 Percussion or vibration massage, e.g. using supersonic vibration; Suction-vibration massage; Massage with moving diaphragms (apparatus for passive exercising A61H 1/000; generating or transmitting mechanical vibrations in general B06B)
23/002 . (having a percussion element combined with a passive spacer element for bearing against the skin)
23/004 . (With mechanical drive, e.g. spring mechanism or vibrating unit being hit for starting vibration and then applied to the body of a patient)
23/006 . (Percussion or tapping massage (hand percussion A61H 2306))
23/008 . (using shock waves)
23/02 . with electric or magnetic drive
23/0209 . (powered with frequencies not related to mains frequency)
23/0218 . (with alternating magnetic fields producing a translating or oscillating movement)
23/0227 . (with magnetostrictive elements)
23/0236 . (using sonic waves, e.g. using loudspeakers)
23/0245 . (with ultrasonic transducers, e.g. piezo-electric)
23/0254 . (with rotary motor)
23/0263 . (using rotating unbalanced masses)
23/0272 . (multiple masses each rotated by an individual motor)
23/0281 . (multiple masses driven by the same motor)
23/029 . (with variable angular positioning)
23/04 . with hydraulic or pneumatic drive (hydraulic or Pneumatic massages, A61H 9/00; underwater massages, A61H 33/000)
23/045 . (using hydrostatic pressure, e.g. high density fluids)
23/06 . Hand percussion, i.e. Hand driven (chiropractic devices, A61H 1/008; A61H 1/000)

31/00 Artificial respiration or heart stimulation ((blood pumps A61M 1/10; artificial respiration by treatment with gas or air, e.g. mouth-to-mouth respiration A61M 1/00; applying electric currents by contact electrodes for stimulation, e.g. heart pace-makers A61N 1/36; teaching or training models, demonstration models for medical purposes G09B 23/288))
31/001 . (fixed on the chest by suction)
31/002 . (fixed on the chest by adhesives)
31/003 . (with alternated thorax decompression due to lateral compression)
31/004 . (Heart stimulation)
31/005 . (with feedback for the user)
31/006 . (Power driven)
31/007 . (Manual driven)
31/008 . (Supine patient supports or bases, e.g. improving air-way access to the lungs)
31/02 . "Iron-lungs", i.e. involving chest expansion by applying underpressure thereon, whether or not combined with gas breathing means
31/025 . (using the same pump for pressure and vacuum, not being driven at the respiratory rate, e.g. blowers)

33/00 Bathing devices for special therapeutic or hygienic purposes (A61H 35/00 takes precedence; sprays acting on a body or body part not immersed in water A61H 9/00; means for washing bed-ridden persons A61G 7/0005; for sub aquatic intestinal cleaning A61M 1/10; isolation chambers A61M 21/0094; for artificial respiration or heart stimulation A61M 16/00; for applying electric currents to the skin A61M 1/11; teaching or training models, demonstration models for medical purposes A61M 1/100)
33/004 . (Bathing devices specially adapted for treating burned patients)
33/008 . (Arrangement for cleaning the installation before or after use)
33/0012 . (by rinsing)
33/0016 . (using cleansing products)
33/002 . (by blowing air through the installation after the bath has been emptied)
33/0025 . (by connecting the air lines with the drain)
33/0029 . (with ultrasonics)
33/0033 . (by draining-off pumps, nozzles, waterlines by gravity)
33/0037 . (Arrangement for cleaning the fluid during use)
33/0041 . (Cleaning and recovery of the fluid without mixing the cleaned and uncleared fluid, e.g. using a recovery tank)
33/0045 . (with heat-recovery of waste fluid)
33/005 . (Electrical circuits therefor)
33/02 Devices for gas baths with oxygen, hydrogen, or the like (production of ozone or hydrogen C01B, C25B 1/02)
2033/141 [with ionised gas, e.g. ozone]
2033/143 [with oxygen]
2033/145 [with CO₂]
2033/146 [with nitrogen]
2033/148 [with hydrogen]
33/60 Components specifically designed for the therapeutic baths of groups A61H 33/00 (plumbing E03C 1/00)
33/6005 [Special constructive details of the bathtub, e.g. of the walls or supporting structure]
33/601 [Inlet to the bath]
33/6015 [Cascade massage]
33/6021 [Nozzles]
33/6026 [Nozzles in the bathtub connected to an outside pump circuit without modification of the walls]
33/6031 [Extendible or retractable]
33/6036 [Hand-held connected to a supply hose]
33/6042 [Used also as outlet]
33/6047 [With incorporated pump means]
33/6052 [Having flow regulating means]
33/6057 [Comprising means producing pulsating or intermittent streams (for massage, A61H 9/0007)]
33/6063 [Specifically adapted for fitting in bathtub walls]
33/6068 [Outlet from the bath]
33/6073 [Intake mouths for recirculation of fluid in whirlpool baths]
33/6078 [Combined with waste outlets]
33/6084 [For filling to the border or edge of the bath, i.e. no border to be seen]
33/6089 [Specific construction features for further massaging means, i.e. not for the nozzles]
33/6094 [Extending through the wall of the bathing device]
35/00 Baths for specific parts of the body (electric circuits therefor A61H 33/005; specific components therefor A61H 33/60)
35/002 [Breast baths]
2035/004 [for the whole body except the head]
35/006 [for the feet]
35/008 [for the head (A61H 35/02 and A61H 35/04 takes precedence)]
35/02 [for the eyes]
35/04 [for the nose]
36/00 Sweating suits
37/00 Accessories for massage
37/005 [Body floating supports for relaxation in water]
39/00 Devices for locating or stimulating specific reflex points of the body for physical therapy, e.g. acupuncture (chiropodists' instruments A61B 17/54; for radiation therapy A61N 5/0619)
39/002 [Using electric currents (electrotherapy A61N 1/32)]
2039/005 [by means of electromagnetic waves, e.g. I.R., U.V. rays]
Characteristics of apparatus not provided for in the preceding codes

- Constructive details
- inflatible
- modular
- watertight
- used in water
- Support for the device
- on a door
- on a wall
- Suction cups
- Cushion or similar support
- incorporated in furniture
- Beds
- Mattresses
- Seat or chair
- hand-held
- portable
- Size reducing arrangements when not in use, for stowing or transport
- Damping, vibration related features
- Noise reduction
- Means for preventing injuries
- By stopping operation
- By limiting the applied torque or force
- by raising an alarm
- Illumination related features
- Specific means for adjusting dimensions
- automatically adjusted according to anthropometric data of the user
- heated or cooled
- heated
- cooled
- Mechanism for heating or cooling
- heated by an electric resistance element
- Thermistors with Positive Temperature Coefficient [PTC]
- by a fluid circulating in the apparatus
- by direct air flow on the patient's body
- by a heat accumulator, e.g. a sand or liquid reservoir
- using heat exchanger, e.g. between fresh and used fluids
- using heat loss of a motor
- by chemical reaction
- with Peltier elements
- with microwaves
- with further special therapeutic means, e.g. electrotherapy, magneto therapy or radiation therapy, chromo therapy, infra-red or ultraviolet therapy
- with aromatherapy
- with means for delivering media, e.g. drugs or cosmetics
- Respiratory gas
- Driving means
- with electric or magnetic drive
- Rotary drive
- Frequency controlled AC motor
- Linear drive
- with hydraulic or pneumatic drive
- by piston-cylinder systems
- driven by a human being, e.g. hand driven
- combined with active exercising of the patient
- Passive exercise driven by movement of healthy limbs
- by the other leg or arm
- using own weight
- Therapy performed on humans by animals
- Special force transmission means, i.e. between the driving means and the interface with the user
- Hydraulic or pneumatic means
- Cam
- Wobbling plate
- Special crank assembly
- Overrunning clutches; One-way clutches
- Special bearing arrangements
- Special speed variation means, i.e. speed reducer
- Planetary gearing
- Special movement conversion means
- rotation-linear or vice versa
- Physical interface with patient
- kind of interface, e.g. head rest, knee support or lumbar support
- Head
- Holding means therefor
- Neck
- Holding means therefor
- Shoulder, e.g. for neck stretching
- Holding means therefor
- Thorax
- Holding means therefor
- Back
- Holding means therefor
- Pelvis
- holding means therefor
- Seat (A61H 2201/0149 takes precedence)
- Hand or arm, e.g. handle (hand-held, A61H 2201/0153; fore-arm support, A61H 2003/006)
- Holding means therefor
- Feet or leg, e.g. pedal
- Holding means therefor
2201/1645 . . . contoured to fit the user
2201/1647 . . . the anatomy of a particular individual
2201/165 . . . Wearable interfaces
2201/1652 . . . Harness
2201/1654 . . . Layer between the skin and massage elements, e.g. fluid or ball
2201/1657 . . . Movement of interface, i.e. force application means
2201/1659 . . . Free spatial automatic movement of interface within a working area, e.g. Robot
2201/1661 . . . Wobbling interface, e.g. Stewart platform or Hexapod (nutation movement, A61H 2001/0207)
2201/1664 . . . linear
2201/1666 . . . multidimensional
2201/1669 . . . moving along the body in a reciprocating manner
2201/1671 . . . rotational
2201/1673 . . . Multidimensional rotation
2201/1676 . . . Pivoting
2201/1678 . . . Means for angularly oscillating massage elements
2201/168 . . . not moving
2201/1683 . . . Surface of interface
2201/1685 . . . interchangeable (modular devices, A61H 2201/0107)
2201/1688 . . . disposable
2201/169 . . . Physical characteristics of the surface, e.g. material, relief, texture or indica
2201/1692 . . . Enhanced rubbing effect
2201/1695 . . . Enhanced pressure effect, e.g. substantially sharp projections, needles or pyramids
2201/1697 . . . Breathability of the material
2201/50 . . . Control means thereof
2201/5002 . . . Means for controlling a set of similar massage devices acting in sequence at different locations on a patient
2201/5005 . . . for controlling frequency distribution, modulation or interference of a driving signal
2201/5007 . . . computer controlled
2201/501 . . . connected to external computer devices or networks
2201/5012 . . . using the internet
2201/5015 . . . using specific interfaces or standards, e.g. USB, serial, parallel
2201/5017 . . . Coin operated
2201/502 . . . Card operated, e.g. pre-paid card, credit card or ID card
2201/5023 . . . Interfaces to the user
2201/5025 . . . Activation means
2201/5028 . . . Contact activation, i.e. activated at contact with a surface of the user to be treated
2201/503 . . . Inertia activation, i.e. activated by movement
2201/5033 . . . having a fixed single program
2201/5035 . . . Several programs selectable
2201/5038 . . . freely programmable by the user
2201/5041 . . . control is restricted to certain individuals
2201/5043 . . . Displays
2201/5046 . . . Touch screens
2201/5048 . . . Audio interfaces, e.g. voice or music controlled
2201/5051 . . . hydraulically controlled
2201/5053 . . . mechanically controlled
2201/5056 . . . pneumatically controlled
2201/5058 . . . Sensors or detectors
2201/5061 . . . Force sensors
2201/5064 . . . Position sensors
2201/5066 . . . Limit switches
2201/5069 . . . Angle sensors
2201/5071 . . . Pressure sensors
2201/5074 . . . using electric pressure transducers with proportional output
2201/5076 . . . Frequency sensors
2201/5079 . . . Velocity sensors
2201/5082 . . . Temperature sensors
2201/5084 . . . Acceleration sensors
2201/5087 . . . Flow rate sensors
2201/5089 . . . Gas sensors, e.g. for oxygen or CO₂
2201/5092 . . . Optical sensor
2201/5094 . . . with patient markers
2201/5097 . . . wireless
2203/00 Additional characteristics concerning the patient
2203/02 . . . immersed in liquid
2203/03 . . . especially adapted for animals
2203/04 . . . Position of the patient
2203/0406 . . . Standing on the feet
2203/0412 . . . Kneeling
2203/0418 . . . Squatting, i.e. sitting on the heels
2203/0425 . . . Sitting on the buttocks
2203/0431 . . . in 90°/90°-position, like on a chair
2203/0437 . . . with stretched legs, like in a bed
2203/0443 . . . substantially horizontal
2203/045 . . . with legs in a kneeled 90°/90°-position
2203/0456 . . . Supine
2203/0462 . . . with legs stretched and hips in 90°-position
2203/0468 . . . Prone
2203/0475 . . . on the side
2203/0481 . . . Hanging
2203/0487 . . . upright
2203/0493 . . . by hanging the patient upside down or inclined downwardly
2205/00 Devices for specific parts of the body (A61H 1/02, A61H 13/00, A61H 19/00, A61H 21/00, A61H 35/00 take precedence)
2205/02 . . . Head
2205/021 . . . Scalp
2205/022 . . . Face
2205/023 . . . Nose
2205/024 . . . Eyes
2205/025 . . . Forehead
2205/026 . . . Mandible
2205/027 . . . Ears
2205/028 . . . Temples
2205/029 . . . neck
2205/06 . . . Arms
2205/062 . . . Shoulders
2205/065 . . . Hands
2205/067 . . . Fingers
2205/08 . . . Trunk
2205/081 . . . Back
2205/082 . . . Breasts
2205/083 . . . Abdomen
2205/084 . . . Chest
2205/085 . . . Crotch
Buttocks
Genitals
Hip
Leg
Knee
Patella
for the lower legs
for the upper legs
Feet
Foot reflex zones

Anti-cellulite devices

Devices for avoiding blood stagnation, e.g. Deep Vein Thrombosis (DVT) devices

Measuring physical parameters of the user
Heartbeat characteristics, e.g. E.G.C., blood pressure modulation
Heartbeat rate
Other bio-electrical signals
Electroencephalographic signals
Blood composition characteristics
Blood flowrate, e.g. by Doppler effect
Blood pressure (A61H 2230/04 takes precedence)
Respiratory characteristics
Rate
Temperature
Muscle strain, i.e. measured on the user, e.g. Electromyography [EMG]
Impedance, e.g. skin conductivity; capacitance, e.g. galvanic skin response [GSR]
Body fat
Weight
Height, e.g. length
Contour of the body
Foot reflex zones

(A61H 2230/045 takes precedence)