1.1 **ARTERIAL PROSTHESIS (I.E., BLOOD VESSEL)**

1.11 Stent combined with surgical delivery system (e.g., surgical tools, delivery sheath, etc.)

1.12 Expandable stent with constraining means

1.13 Stent in combination with graft

1.14 Stent penetrating natural blood vessel

1.15 Stent structure

1.16 Having multiple connected bodies

1.17 Stent length remains constant with lateral expansion

1.18 Having shape memory

1.19 Temperature responsive

1.2 Self-expanding stent

1.21 Formed inside natural blood vessel

1.22 Helically wound

1.23 Including means for graft delivery (e.g., delivery sheath, ties, threads, etc.)

1.24 Including valve

1.25 Inflatable graft

1.26 Heart valve

1.27 Having plurality of parallel lumens

1.28 Having pleats

1.29 Longitudinal pleats

1.3 Having variable diameter

1.31 Enlarged end

1.32 Having built-in reinforcement

1.33 Monofilament

1.34 Having marker (e.g., color, radiopaque, etc.)

1.35 Bifurcated

1.36 With means to attach graft to natural blood vessel (e.g., hooks, etc.)

1.37 Having angled cut (i.e., oblique cut)

1.38 Absorbable in natural tissue

1.39. Having pores

1.4 Pore gradient

1.41 Having living cell

1.42 Drug delivery

1.43 Antithrombogenic

1.44 Having plural layers

1.45 Impregnation

1.46 Coating

1.47 Collagen

1.48 Protein

1.49 Made of synthetic material

1.5 Knitted

1.51 Woven

1.52 Velour surface

1.53 Braided

1.54 Fiber

**HEART VALVE**

2.1 Arterial prosthesis (I.E., blood vessel)

2.11 Combined with surgical tool

2.12 Flexible leaflet

2.13 Leaflet made of biological tissue

2.14 Supported by resilient frame

2.15 Trileaflet

2.16 Bileaflet

2.17 Supported by frame

2.18 Resilient frame

2.19 Trileaflet

2.2 Having rigid or semirigid pivoting occluder

2.21 Fixed cylindrical pin

2.22 Annular support member includes projecting means for guiding occluder's pivoting motion

2.23 Strut projecting means

2.24 Strut projecting means extends through hole in occluder

2.25 Strut projecting means cooperates with depression portion of occluder to guide pivoting movement

2.26 Occluder also includes guiding projecting means

2.27 Occluder includes projecting means defining pivoting axis

2.28 Slot in annular support member

2.29 Triangular-shaped slot

2.3 Crescent-shaped slot

2.31 Slot having opposed convex guiding surfaces

2.32 Elongated oval-shaped slot

2.33 Having particular geometry detail

2.34 Having rigid or semirigid translating occluder

2.35 Ball-valve type

2.36 Annuloplasty device

2.37 Adjustable

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2.38 Annular member for supporting artificial heart valve

2.39 Rotationally adjustable relative to suture ring

2.4 Having means for fixedly securing annular support member to sewing ring

2.41 Sewing ring

2.42 Specific material for heart valve

3.1 CORPOREAL ARTIFICIAL HEART, HEART ASSIST (E.G., IMPLANTABLE BLOOD PUMP, ETC.), CONTROL REGULATOR, OR POWER SUPPLY THEREFOR, OR METHOD OF OPERATION THEREFOR

3.11 Including electrical or magnetic means adjacent to flexible diaphragm or chamber to effect contraction thereto (e.g., electromagnet, shape memory material, etc.)

3.12 Powered by muscle

3.13 Having enclosed rotary member for directly impelling blood flow

3.14 Blood flow along electromagnetic section of stator member

3.15 Rotary member driven by flexible shaft (e.g., cable, etc.)

3.16 Having flexible diaphragm or chamber

3.17 Flexible diaphragm or chamber directly compressed by mechanical member

3.18 Reciprocating mechanical member attached to rotary drive means

3.19 Reciprocating mechanical member attached to reciprocating drive means

3.2 Reciprocating mechanical member driven by pressurized working fluid

3.21 Flexible chamber or diaphragm directly compressed by pressurized working fluid

3.22 Reciprocating member

3.23 Reciprocating member attached to rotary drive means

3.24 Rotary pump

3.25 Rotary pump reverses during pumping cycle

3.26 Having connecting means to allow blood flow

3.27 Including electrical power generating means

3.28 Including condition responsive means

3.29 Material characteristic

3.3 Method of teaching use of artificial heart or part thereof

4.1 EYE PROSTHESIS (E.G., LENS OR CORNEAL IMPLANT, OR ARTIFICIAL EYE, ETC.)

5.11 Corneal implant

5.12 Corneal ring

5.13 Having hole

5.14 Lens connected to distinct attachment means

5.15 Having integral protrusion means for attaching lens to cornea

5.16 Material characteristic of corneal implant

6.11 Intraocular lens

6.12 Combined with surgical tool

6.13 Having fluid-filled chamber

6.14 Lens body having through hole for pressure equalization

6.15 Lens having spacers

6.16 Having cellular growth inhibitors

6.17 Having structure for blocking or reducing amount of light transmitted (e.g., glare reduction, etc.)

6.18 Having means on lens to reduce overall dimension of lens for insertion into small incision

6.19 Segmented zones

6.2 Segments slide

6.21 Segments fold

6.22 Including mechanically or electrically activated means on lens to alter focal power of lens (e.g., electromagnet, material which is ablated by laser, etc.)

6.23 Aspheric lens

6.24 Multifocal lens

6.25 Fresnel lens

6.26 Prismatic lens

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CLASS 623 PROSTHESIS (I.E., ARTIFICIAL BODY MEMBERS), PARTS THEREOF, OR AIDS AND ACCESSORIES THEREFOR

6.27 ..Lens having regions with different focusing powers (i.e., multifocal)
6.28 ..Concentric zones
6.29 ..Radial zones
6.3 ..Diffractive multifocal lens
6.31 ..Diffractive lens
6.32 ..Multiple lens
6.33 ..Side by side
6.34 ..In series along visual axis
6.35 ..One lens is external from natural eye cavity
6.36 ..One lens is natural crystalline lens
6.37 ..Focal power of lens can be continuously varied by movement of body part (e.g., head, eyes, ciliary muscles, etc.)
6.38 ..Having supporting structure for lens
6.39 ..Supporting structure conforms to shape of capsular bag
6.4 ..Surrounding optic
6.41 ..Separable from intraocular lens
6.42 ..Filamentary
6.43 ..Specific supporting structure (e.g., haptic, plate, etc.)
6.44 ..Plate
6.45 ..Having means to temporarily stabilize haptic
6.46 ..Haptic and optic junction
6.47 ..Haptic includes notch
6.48 ..Haptic has different color from optic
6.49 ..Haptic has particular cross-sectional geometry
6.5 ..Haptic is formed from multiple layers
6.51 ..Having loop
6.52 ..Four filaments
6.53 ..Three filaments
6.54 ..Two filaments
6.55 ..One filament
6.56 ..Material characteristic of lens
6.57 ..Lens includes antithrombotic substance
6.58 ..Lens has specific glass transition temperature
6.59 ..Lens composed of swellable material
6.6 ..Lens includes ultraviolet absorber
6.61 ..Lens is collagen based
6.62 ..Lens has specific coating
6.63 ..Retina
6.64 ..Globe

BREAST PROSTHESIS

LARYNX, TRACHEA, TRACHEOBRONCHIAL PROSTHESIS OR COMBINATION THEREOF

EAR OR NOSE PROSTHESIS

IMPLANTABLE PROSTHESIS

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20.17 ....Including in-growth tissue promoting means
20.18 ....Patellar bone
20.19 ....And a member secured to femoral bone
20.2 ....Patellar made of two connected pieces
20.21 ....Having member secured to femoral and tibial bones
20.22 ....Ball and socket joint
20.23 ....Including roller bearing
20.24 ....Constrained joint
20.25 ....Including telescoping means
20.26 ....Including means to permit lateral rocking movement about a horizontal axis
20.27 ....Including cam means to limit anterior and posterior movement
20.28 ....Including an intermediate member
20.29 ....Movable
20.3 ....Unicondylar
20.31 ....Including lateral and medial condyles
20.32 ....Tibial bone
20.33 ....Movable bearing
20.34 ....Tibial stem structure
20.35 ....Femoral bone
20.36 ....Femoral stem structure
21.11 ....Wrist, hand (e.g., finger, etc.)
21.12 ....Wrist bone
21.13 ....Ball and socket joint
21.14 ....Lunate or scaphoid bone
21.15 ....Finger bone
21.16 ....Ball and socket joint
21.17 ....Including an intermediate bearing cup
21.18 ....Ankle bone
21.19 ....Toe bone
22.11 ....Hip joint bone
22.12 ....Combined with surgical tool
22.13 ....Including lubricating fluid enclosure means
22.14 ....Including a damping element
22.15 ....Including acetabular cup and femoral head
22.16 ....Including roller bearing
22.17 ....Including an intermediate bearing cup
22.18 ....Intermediate bearing cup movable relative to acetabular outer cup
22.19 ....Locking element between cups
22.2 ....Retaining ring
22.21 ....Acetabular cup
22.22 ....Oblong
22.23 ....Interfitted into a prepared natural acetabulum by force fitting
22.24 ....And an inner insert liner cup
22.25 ....Adjustable insert liner cup
22.26 ....One cup includes flexible wall
22.27 ....Circumferentially threaded acetabular outer cup
22.28 ....Including locking means between cups
22.29 ....Locking ring
22.3 ....Having flexible wall
22.31 ....Acetabular cup outer surface is circumferentially threaded
22.32 ....Acetabular cup outer surface includes integral anchoring means
22.33 ....Mesh outer surface
22.34 ....Cup includes closure means for closing anchoring hole means
22.35 ....Cup includes cut-through hole to receive protruding anchoring means
22.36 ....Screw anchoring means
22.37 ....Pin anchoring means
22.38 ....Outer surface of cup includes protruding means
22.39 ....Cup secured to acetabulum by cement
22.4 ....Total femoral bone (i.e., including joint head and femoral stem)
22.41 ....Set of plural femoral securement members
22.42 ....Modular type
22.43 ....Stem includes protruding means projecting into a bore in joint head
22.44 ....Bore in neck area of joint head
22.45 ....Including an intermediate coupler between joint head and protruding means
22.46 ....Including protruding means projects into a bore in femoral stem or neck
23.11 ....Femoral joint head
23.12  .....Femoral joint head cap  
23.13  .....Including an inner shell  
23.14  .....Including neck anchoring means  
23.15  .....Femoral stem  
23.16  .....Having electrical means  
23.17  .....Having shock absorbing means  
23.18  .....Multi-stem  
23.19  .....Having a cement channel  
23.2  .....And cement seal means  
23.21  .....Having a collar  
23.22  .....Removable collar  
23.23  .....Having intramedullary  
23.24  .....Having a stepped surface  
23.25  .....Having integral spacer  
23.26  .....Having anchoring means to attach artificial femoral stem to natural femoral bone  
23.27  .....Screw anchoring means  
23.28  .....Having augmentative means  
23.29  .....Having textured outer surface  
23.3  .....Porous  
23.31  .....Ridges  
23.32  .....Having variable stiffness  
23.33  .....Hollowed stem  
23.34  .....Composite stem  
23.35  .....Having particular geometry  
23.36  .....Coating surface  
23.37  .....Cement coating  
23.38  .....Polished  
23.39  .....Total joint bone (i.e., including two connected joint bones)  
23.4  .....Ball and socket joint  
23.41  .....Including intermediate elastic joint component connecting two joint bones  
23.42  .....Joint head bone  
23.43  .....Cup-shaped  
23.44  .....Stem structure  
23.45  .....Adjustable length  
23.46  .....Including sleeve around stem member  
23.47  .....Adjustable  
23.48  .....Cement bone plug or bone canal positioning means  
23.49  .....Including electrical means to induce bone growth  
23.5  .....Having textured outer surface  
23.51  .....Composite bone  
23.52  .....Including an outer sheath  
23.53  .....Made of metal  
23.54  .....Wire mesh  
23.55  .....Having porous outer surface  
23.56  .....Ceramic  
23.57  .....Including bioactive coating  
23.58  .....Polymers  
23.59  .....Polymer coating  
23.6  .....Bone surface coating  
23.61  .....Bone composition  
23.62  .....Cement  
23.63  .....Including natural bone tissue  
23.64  .....Hollow or tubular part or organ (e.g., bladder, urethra, bronchi, bile duct, etc.)  
23.65  .....Bladder, kidney, lung, or stomach  
23.66  .....Urethra  
23.67  .....Inflatable  
23.68  .....Including a valve  
23.69  .....Helical  
23.7  .....Stent  
23.71  .....Material characteristic  
23.72  .....Tissue  
23.73  .....Having micro particles  
23.74  .....Having textured surface  
23.75  .....Having bio-absorbable component  
23.76  .....Having means to promote cellular attachment  
24  .....Bioelectrical (e.g., myoelectric, etc.)  
25  .....Leg  
26  .....Extension  
27  .....Foot covering or support  
28  .....Torso actuated or controlled  
29  .....Torso attachment  
30  .....Suspender or attachment from natural leg  
31  .....Socket holder  
32  .....Suction type  
33  .....Yieldably mounted  
34  .....Cushioning means (e.g., pad or liner, etc.)  
35  .....Fluid  
36  .....Adjustable shank or thigh  
37  .....Knee  
38  .....Combined knee and foot actuator  
39  .....Spring  
40  .....Brake or latch  
41  .....Weight or position responsive  
42  .....Adjustable friction joint  
43  .....Spring  
44  .....Ankle  
45  .....Universal joint  

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MOC NOTES

Any foreign patents...

623 - 6 CLASS 623 PROSTHESIS (I.E., ARTIFICIAL BODY MEMBERS), PARTS THEREOF, OR AIDS AND ACCESSORIES THEREFOR

49 ...Resilient
50 ..Resiliently actuated or controlled
51 ...Elastic cord
52 ...Spring
53 .Foot
54 ..Toe
55 ..Resilient
56 ...Fluid cushion
57 ARM OR COMPONENT (E.G., ELBOW, WRIST, HAND, FINGER, ETC.) AND ACTUATOR OR CONNECTOR THEREFOR
58 .Torso supported and actuated
59 .Elbow
60 ..With forearm actuation
61 .Wrist
62 ..With wrist actuation
63 .Arm or torso initiated finger actuation
64 .Finger actuator embodied in simulated hand
65 ..With article or article holder
66.1 MISCELLANEOUS

920 METHOD OR APPARATUS FOR PREPARING OR TREATING PROSTHETIC
921 .Blood vessel
922 .Heart
923 .Bone
924 MATERIAL CHARACTERISTIC
925 .Natural
926 .Synthetic

FOREIGN ART COLLECTIONS

FOR 000 CLASS-RELATED FOREIGN DOCUMENTS

Any foreign patents or non-patent literature from subclasses that have been reclassified have been transferred directly to FOR Collections listed below. These Collections contain ONLY foreign patents or non-patent literature. The parenthetical references in the Collection titles refer to the abolished subclasses from which these Collections were derived.

FOR 100 ARTERIAL PROSTHESIS (E.G., BLOOD VESSEL, ETC.) (623/1)
FOR 101 HEART VALVE (623/2)
FOR 102 CORPOREAL ARTIFICIAL HEART, HEART ASSIST (E.G., IMPLANTABLE BLOOD PUMP, ETC.), CONTROL REGULATOR, OR POWER SUPPLY THEREFOR, OR METHOD OF OPERATION THEREFOR (623/3)
FOR 103 EYE PROSTHESIS (E.G., LENS OR CORNEAL IMPLANT, OR ARTIFICIAL EYE, ETC.) (623/4)
FOR 104 .Corneal implant (623/5)
FOR 105 .Intraocular lens (623/6)
FOR 106 MISCELLANEOUS (623/66)
FOR 107 IMPLANTABLE PROSTHESIS (623/11)
FOR 108 .Hollow or tubular part or organ (e.g., bladder, urether, bronchi, bile duct, etc.) (623/12)
FOR 109 .Ligament or tendon (623/13)
FOR 110 .Muscle (e.g., sphincter, etc.) (623/14)
FOR 111 .Hair or skin (623/15)
FOR 112 .Bone prosthesis (623/16)
FOR 113 ..Spinal column (e.g., vertebra, spinal disc, etc.) (623/17)
FOR 114 ..Joint (623/18)

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FOR 115 ... Shoulder (623/19)
FOR 116 ... Elbow or knee (623/20)
FOR 117 ... Wrist, hand (e.g., finger, etc.), ankle or foot (e.g., toe, etc.) (623/21)
FOR 118 ... Hip (623/22)
FOR 119 ... Femoral head (623/23)

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CLASS 623 PROSTHESIS (I.E., ARTIFICIAL BODY MEMBERS), PARTS THEREOF, OR AIDS AND ACCESSORIES THEREFOR