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
2.1 **HEART VALVE**
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 structured to permit only pivoting movement of occluder
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

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 dirrectly 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

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
7 **BREAST PROSTHESIS**
8 .Implantable
9 **LARYNX, TRACHEA, TRACHEOBRONCHIAL PROSTHESIS OR COMBINATION THEREOF**
10 **EAR OR NOSE PROSTHESIS**
11.11 **IMPLANTABLE PROSTHESIS**
13.11 .Ligament or tendon
13.12 ..For knee
13.13 ..Including tension adjusting means
13.14 ..Including ligament anchor means
13.15 ..Including an outer sheath
13.16 ...Removable
13.17 ..Including natural tissue
13.18 ..Including bio-absorbable material
13.19 ..In braided form
13.2 ..Made from plural strands
14.11 .Vocal cord
14.12 .Meniscus
14.13 .Muscle (e.g., sphincter, etc.)
15.11 .Hair or skin
15.12 ..Skin
16.11 .Bone
17.11 ..Spine bone
17.12 ...Having a fluid filled chamber
17.13 ...Having a spring
17.14 ...Having ball and socket means
17.15 ...Having opposed bone-plates which moves relative to one another
17.16 ...Including spinal disc spacer between adjacent spine bones
17.17 ..Jaw bone
17.18 ..Facial bone
17.19 ..Skull bone
18.11 ..Joint bone
18.12 ...With magnet
19.11 ...Shoulder joint bone
19.12 ....Ball and socket joint
19.13 ....Humeral and glenoid bones
19.14 ....Humeral bone
20.11 ...Elbow joint bone
20.12 ....Constrained joint
20.13 ....Semi-constrained joint
20.14 ...Knee joint bone
20.15 ....Modular type
20.16 ....Including bone augmentative means

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 **HAVING ELECTRICAL ACTUATOR**
25 .Bioelectrical (e.g., myoelectric, etc.)

26 **HAVING FLUID ACTUATOR**

27 **LEG**
28 .Extension
29 ..Foot covering or support
30 .Torso actuated or controlled
31 .Torso attachment
32 .Suspender or attachment from natural leg
33 .Socket holder
34 ..Suction type
35 ..Yieldably mounted
36 ..Cushioning means (e.g., pad or liner, etc.)
37 ...Fluid
38 .Adjustable shank or thigh
39 .Knee
40 ..Combined knee and foot actuator
41 ...Latch
42 ...Spring
43 ..Brake or latch
44 ...Weight or position responsive
45 ...Adjustable friction joint
46 ..Spring
47 .Ankle
48 ..Universal joint

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**

CROSS-REFERENCE ART COLLECTIONS

900 **STENT FOR HEART VALVE**
901 **METHOD OF MANUFACTURING PROSTHETIC DEVICE**
902 **METHOD OF IMPLANTING**
903 .Blood vessel
904 .Heart
905 .Eye
906 ..Corneal
907 ..Method of manipulating parts of intraocular lens structure for implantation
908 .Bone
909 **METHOD OR APPARATUS FOR ASSEMBLING PROSTHETIC**
910 .Heart
911 .Bone
912 **METHOD OR APPARATUS FOR MEASURING OR TESTING PROSTHETIC**
913 .Heart
914 .Bone
915 **METHOD OR APPARATUS FOR PREPARING BIOLOGICAL MATERIAL**
916 .Blood vessel
917 ..Collagen
918 .Heart
919 .Bone
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 classified have been transferred directly to FOR 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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