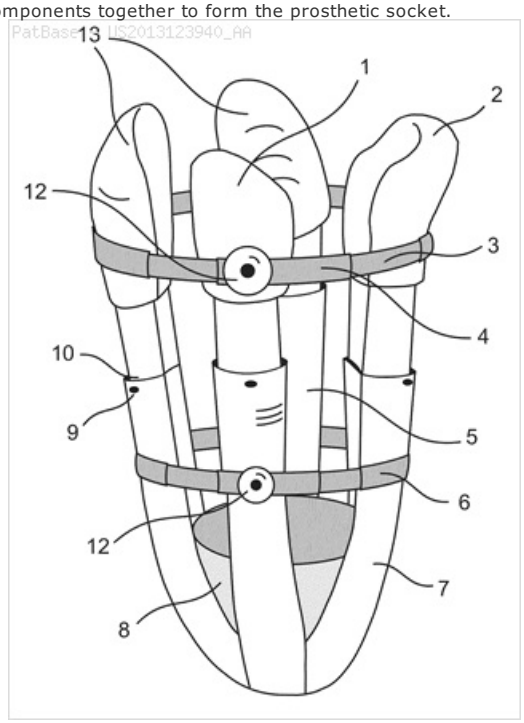
1) Family number: 53733500 (US2013123940A)

Title: MODULAR PROSTHETIC SOCKETS AND METHODS FOR MAKING SAME

Abstract: The invention relates to a prosthetic socket for a residual limb of the lower extremity or upper extremity of an individual person. The residual limb has particular dimensions and anatomical contours; the prosthetic socket has dimensions and contours that fit the dimensions and contours of the residual limb. The prosthetic socket may also fit in a manner that is biomechanically particularly appropriate for the individual. The prosthetic socket is an assembly of components from groups of components that include (a) struts arranged longitudinally with respect to the residual limb, (b) proximal brim members arranged proximally to the struts and connected thereto; and (c) distal socket members disposed at the distal base of the prosthetic socket. The socket components within these groups may be modular in that they can vary with respect to dimensions and/or contours, and yet have common connecting features that permit assembly of the components together to form the prosthetic socket.

Classifications:
International (IPC 8-9): A61F2/50 A61F2/54 A61F2/60 A61F2/76 A61F2/78 A61F2/80 B23Q17/00 B29C67/00 G05B19/4099 (Advanced/Invention); A61F2/50 (Advanced/Non-invention)
CPC: A61F2/5044 Y10T29/49826 A61F2/54 A61F2/60 A61F2002/5026 A61F2002/5027 A61F2/76 G05B19/4099 A61F2/80 A61F2/5046 A61F2002/5083 B33Y50/02 G05B2219/35134 G05B2219/49007 A61F2230/0067 A61F2230/0095 A61F2005/563 A61F2002/785 A61F2/78 A61F2/7812 B33Y10/00 B33Y80/00 A61F5/30 A61F2002/505 A61F2002/5056 A61F2002/7862 A63B2071/1258 Y10T29/4978 A61F2002/503 A61F2002/546 B29C64/386 A63B71/10
US: 1/1 29/407.1 29/428 623/24 623/33 623/35 623/36 623/57 700/98 703/1
JP F-Term: 4C097 4C097/AA02 4C097/BB03 4C097/CC01 4C097/CC13 4C097/CC15 4C097/CC18 4C097/TA08
JP F-Index: A61F2/80



Family:

Publication number	Publication date	Application number	Application date
AU2012334971 AA	20130516	AU20120334971	20121113
CA2854799 AA	20140506	CA20122854799	20121113
CN104053416 A	20140917	CN201280066479	20121113
CN104053416 B	20161109	CN201280066479	20121113
EP2775967 A1	20140917	EP20120847452	20121113
EP2775967 A4	20150819	EP20120847452	20121113
EP2775967 B1	20190109	EP20120847452	20121113
JP2015502200 T2	20150122	JP20140541410T	20121113
US2013123940 AA	20130516	US20120675761	20121113
US2014135946 AA	20140515	US20130074650	20131107
US2015190252 AA	20150709	US20150659433	20150316
US2015313730 AA	20151105	US20150798295	20150713
US2016000586 AA	20160107	US20150856214	20150916
US2016000587 AA	20160107	US20150856267	20150916
US2016058584 AA	20160303	US20150844462	20150903
US2016235560 AA	20160818	US20160047131	20160218
US2017128238 AA	20170511	US20170410149	20170119
US2018000615 AA	20180104	US20170702496	20170912
US2018021153 AA	20180125	US20170702184	20170912
US8978224 BB	20150317	US20120675761	20121113
US9044349 BB	20150602	US20130074650	20131107
US9468543 BB	20161018	US20150856214	20150916
US9549828 BB	20170124	US20150798295	20150713
WO13071308 A1	20130516	WO2012US64876	20121113

Priority:

US20110559051P 20111112 US20120675761 20121113 WO2012US64876 20121113

US20130074650 20131107 US20140045433P 20140903 US20150117501P 20150218
US20150128218P 20150304 US20150659433 20150316 US20150161132P 20150513
US20150163717P 20150519 US20150798295 20150713 US20150844462 20150903
US20150856214 20150916 US20150856267 20150916 US20160047131 20160218
US20170410149 20170119 US20170702496 20170912 US20170702184 20170912

Probable Assignee: LIM INNOVATIONS INC

Assignee(s): (std)**:** HURLEY GARRETT RAY ; LIM INNOVATIONS INC ; WILLIAMS JESSE ROBERT

Assignee(s): HURLEY GARRET RAY ; LIM INNOVATIONS INC818 46TH AVENUESAN FRANCISCOCA94121US

Inventor(s): (std)**:** WILLIAMS JESSE ROBERT ; HURLEY GARRETT RAY ; HURLEY GARRET RAY ; CESPEDES JUAN JACOBO

Inventor(s): WILLIAMS JESSE ROBERTUS ; HURLEY GARRET RAYUS

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; BOULT WADE TENNANT; BOULT WADE TENNANT LLP; INO SARI; KURASAWA ICHIRO; MATSUSHITA MITSURU; DESHIMARU TAKESHI; KUMAKURA YOSHIO; DORSEY AND WHITNEY LLP; SCOTT M; MERCHANT AND GOULD PC; RADLO EDWARD J

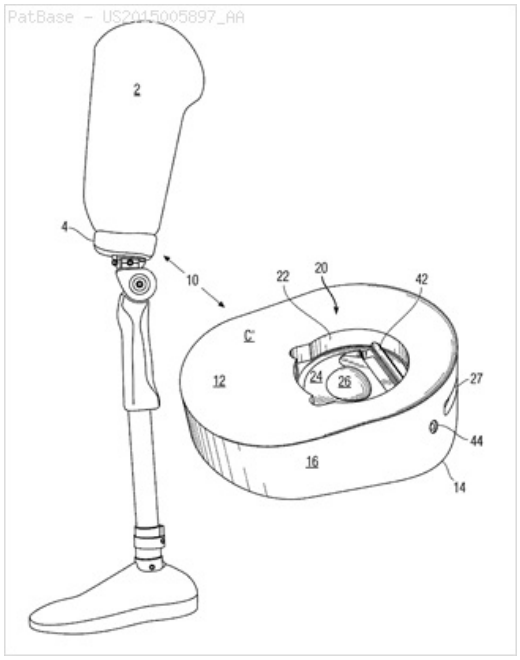
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

2) Family number: 54124089 (US2015005897A)

Title: PROSTHETIC SOCKET CENTERING BLOCK

Abstract: A prosthetic component centering block (10) for mounting and adjustably centering a socket to a prosthetic leg, and for establishing and maintaining proper flexion and offset there between. The centering block (10) comprises a solid member defined by an upper surface, lower surface, and surrounding sides. Both the upper surface and lower surface define an elongated geometric shape extending from a front end to a rear end, and the upper surface is inclined front-to-rear at a pre-determined flexion angle (F) relative to said lower surface.

Classifications:
International (IPC 8-9): A61F2/50 A61F2/60 A61F2/76 A61F2/78 A61F2/80 (Advanced/Invention);
A61F2/50 (Advanced/Non-invention)
CPC: A61F2/76 A61F2002/5018 A61F2002/5023 A61F2002/5083 F04C2270/0421 A61F2/60 A61F2/78 A61F2/7812 A61F2/80 A61F2002/7831 A61F2002/7875 A61F2002/7881
US: 1/1 623/33 623/36



Family:

Publication number	Publication date	Application number	Application date
CA2857513 AA	20140529	CA20122857513	20121214
CA2857513 C	20190108	CA20122857513	20121214
DE602012043199 D1	20180329	DE201260043199T	20121214
EP2790613 A1	20141022	EP20120856828	20121214
EP2790613 A4	20150902	EP20120856828	20121214
EP2790613 B1	20180221	EP20120856828	20121214
TR201803504 T4	20180424	TR20180003504T	20121214
US2015005897 AA	20150101	US20120373059	20121214
US2016030204 AA	20160204	US20150809907	20150727
US2018008435 AA	20180111	US20170708801	20170919
US9492292 BB	20161115	US20120373059	20121214
WO13090733 A1	20130620	WO2012US69768	20121214

Priority:

US20110570584P 20111214 EP20120856828 20121214 US20120373059 20121214
WO2012US69768 20121214 US20140373059 20140718 US20140030831P 20140730
US20150809907 20150727 US20170708801 20170919

Probable Assignee: MANTELMACHER LEE H

Assignee(s): (std): MANTELMACHER H LEE ; MANTELMACHER LEE H

Assignee(s): MANTELMACHER LEE H OWINGS MILLS ; MANTELMACHER H LEE3704 ASHLEY WAYOWINGS MILLSMD21117US ; H LEE MANTELMACHER ; MANTELMACHER H

Inventor(s): (std): MANTELMACHER H LEE

Inventor(s): MANTELMACHER H ; MANTELMACHER H LEE3704 ASHLEY WAYOWINGS MILLSMD21117US ; MANTELMACHER H LEE OWINGS MILLS ; H LEE MANTELMACHER

Agent(s): MACRAE AND CO; DEHMEL AND BETTENHAUSEN PATENTANWAELTE PARTMBB; ROBINSON SIMON JOHN; UGUR GUERSAD YALCINER; OBER KALER GRIMES AND SHRIVER; ROYAL W; CRAIG ROYAL W

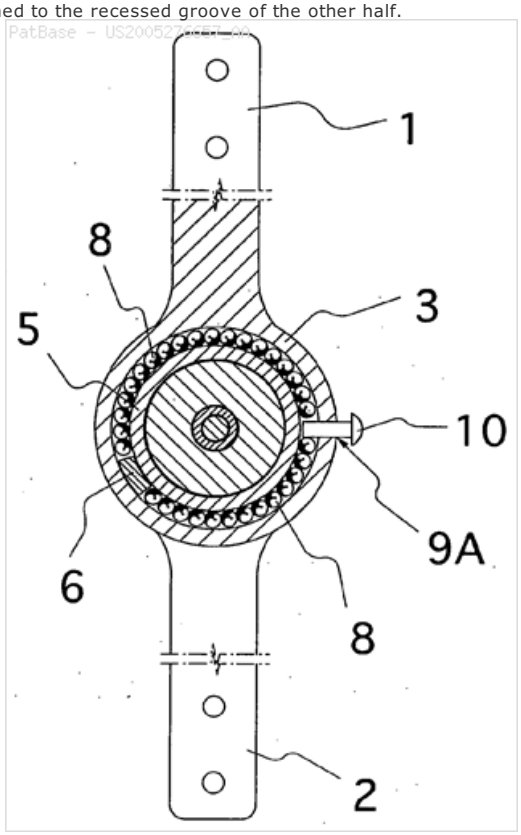
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

3) Family number: 31875274 (US2005276657A)

Title: JOINT COUPLING FOR PROSTHETIC BRACE

Abstract: A simple and compact joint coupling for a prosthetic brace can maintain an integrally fixed state, adapt for a movable region training and a movable state, and has a small dividing of a bending angle. The rotor having a recessed groove formed is rotatably intruded into a first coupling base, and protruding pieces and provided on the circumferential surface of a second coupling base are fitted to the recessed groove. In addition, the surface of the second coupling base is covered with an operation cover for operating an operation pin. A first coupling base and the second coupling base are pivoted so as to be rotated by a central shaft and a stopper screw for preventing the fall off of the central shaft. The circumference of the recessed groove for arraying and charging the spheres is bisected by convex parts and. Spheres are arrayed and charged in the recessed groove of one bisected half, and a freely expansible and contractible spring is attached to the recessed groove of the other half.

Classifications:
International (IPC 8-9): A61F5/00 A61F5/01
A61F5/02 (Advanced/Invention);
A61F5/00 A61F5/01 A61F5/02 (Core/Invention)
International (IPC 1-7): A61F5/00 A61F5/01 A61F5/02
CPC: Y10T403/32327 A61F5/0125 A61F2005/0167
European: A61F5/01D3F K61F5/01D8M1
US: 403/92 602/16 602/19 602/20 602/26 602/27
JP F-Term: 4C098 4C098/AA02 4C098/BB09 4C098/BB11 4C098/BC02 4C098/BD13 4C098/BB10 4C098/BC01 4C098/BC15 4C098/BC42
JP F-Index: A61F5/02/N A61F5/01/N



Family:

Publication number	Publication date	Application number	Application date
EP1676549 A1	20060705	EP20040792594	20041019
EP1676549 A4	20090325	EP20040792594	20041019
JP2005144156 A2	20050609	JP20040298792	20041013
JP3105373 U	20041028	JP20040002833U	20040520
JP4053533 B2	20080227	JP20040298792	20041013
US2005276657 AA	20051215	US20050124344	20050505
US7364557 BB	20080429	US20040124344	20041019
WO05039459 A1	20050506	WO2004JP15425	20041019

Priority:

JP20030361600 20031022 JP20040002833 20040520 JP20040002833U 20040520
JP20040298792 20041013 WO2004JP15425 20041019

Probable Assignee: IZUMI GISHI SOUGU SEISAKUSHO CO LTD

Assignee(s): (std): IZUMI GISHI SOGU SEISAKUSHO KK ; IZUMI GISHI SOUGU SEISAKUSHO C ; YUMIKINO YUJI

Assignee(s): IZUMI GISHI SOUGU SEISAKUSHO CO ; IZUMI GISHI SOUGU SEISAKUSHO CO LTD

Inventor(s): (std)**:** YUMIKINO YUJI

Agent(s): JORDAN AND HAMBURG LLP

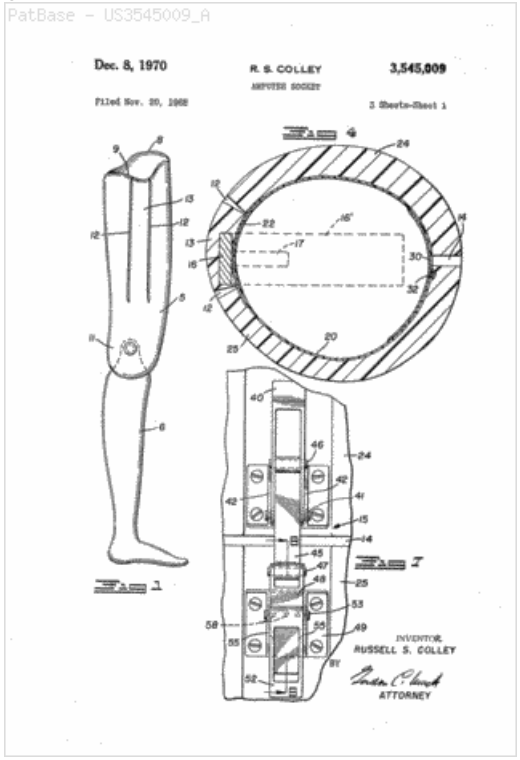
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

4) Family number: 931832 (US3545009A)

Title: AMPUTEE SOCKET

Abstract: ABSTRACT OF THE DISCLOSURE
A socket for an amputee is provided with a slot which extends to the upper edge operated by a clamp, preferably a clamp with a variable bite so that the cavity within the socket can be adjusted to the size of a stump, and if the clamp has a variable bite the size of the socket can be varied from time to time without removal from the

Classifications:
International (IPC 8-9): A61F2/80 (Advanced/Invention); A61F2/50 (Core/Invention)
International (IPC 1-7): A61F1/02
CPC: A61F2/80
European: A61F2/80
US: 623/33
Locarno class: 3 /17



Family:

Publication number	Publication date	Application number	Application date
US3545009 A	19701208	US19680777410	19681120

Priority:
US19680777410 19681120

Probable Assignee: ERNEST S FERRY
Assignee(s): (std)**:** ERNEST S FERRY
Inventor(s): (std)**:** COLLEY RUSSELL S
Inventor(s): RUSSELL S COLLEY

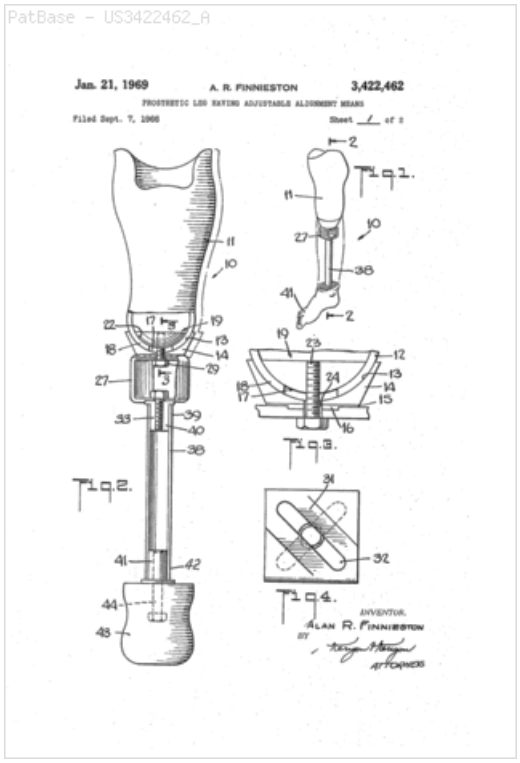
5) Family number: 851344 (US3422462A)

Title: PROSTHETIC LEG HAVING ADJUSTABLE ALIGNMENT MEANS

Abstract: (Claim 1) 1. Prosthetic apparatus comprising a socket member adapted to receive a human stump in conforming relationship, said socket member being generally rounded at its lower closed end and having a hole in said end, a 20 cup member having an inner generally concave surface adapted to receive said closed end of said socket member, said cup member having a bottom with a bottom ridge thereon, latéral adjustment means including a pair of anchor plates supported at spaced positions and having 25 respective slotted portions therethrough, one said anchor plate having a grooved portion in its outer surface aligned with said slotted portion and dimensioned ta receive said ridge of said cup bottom, the other said anchor plate having a similar grooved portion in its outer surface 30 aligned with its said slotted portion, a first boit means for securing said socket and cup in an aligned position to said one anchor plate, a first plug member having a head adapted for slideable engagement in the groove in said other anchor plate, second boit means extending through 35 said slotted portion in the latter said plate for securing said plug to said plate in a laterally aligned position, an intermediate extension member joined at one end to said first plug member, a second plug member secured to the other end of said extension member and a foot member 40 joined to said second plug member.

Classifications:
International (IPC 1-7): A61F1/02 A61F1/08

CPC: A61F2/60 A61F2/76 A61F2002/5001 A61F2002/5023
European: A61F2/60 A61F2/76 K61F2/50C K61F2/50G3P
US: 623/33 623/38



Family:

Publication number	Publication date	Application number	Application date
US3422462 A	19690121	US19660577684	19660907

Priority:
US19660577684 19660907

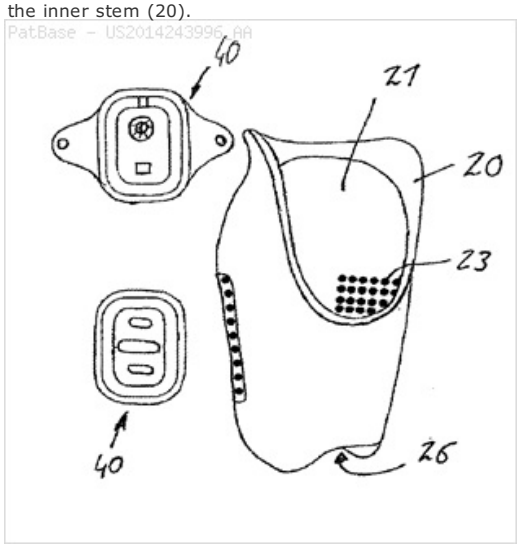
Probable Assignee:	ALAN R FINNIESTON
Assignee(s): (std)**:**	ALAN R FINNIESTON
Inventor(s): (std)**:**	FINNIESTON ALAN R
Inventor(s):	ALAN R FINNIESTON

6) Family number: 53469202 (US2014243996A)

Title: PROSTHESIS ASSEMBLY

Abstract: The invention relates to a prosthesis assembly, comprising an outer stem (10) provided with a proximal opening (11), and at the distal end (12) thereof is provided with a connecting means (13) for fastening an additional component, and which is formed of a material that is rigid in the longitudinal extension thereof, in which at least one slit (14) extending at least partially in a longitudinal direction is inserted in order to allow deformation in a radial direction. The prosthesis assembly further comprises an inner stem (20) made of a flexible material and provided with a proximal opening (21), at least one tensioning device (30) that is affixed to the outer stem (10) and can be accessed by way of a diameter change of the outer stem (10). At least one electrode (40) is displaceably fastened to a side of the outer stem (10) that is facing the inner stem (20).

Classifications:
International (IPC 8-9): A61B5/0488 A61F2/50 A61F2/54 A61F2/60 A61F2/72 A61F2/78 A61F2/80 (Advanced/Invention);
A61B5/0488 A61F2/50 A61F2/54 A61F2/76 (Advanced/Non-invention)
CPC: A61B5/04888 A61F2/54 A61F2/60 A61F2/72 A61F2/7812 A61F2/80 A61F2002/502 A61F2002/5027 A61F2002/5084 A61F2002/7615 A61F2002/7862 A61F2002/5021
US: 1/1 623/33



Family:

Publication number	Publication date	Application number	Application date
BR112014008317 A2	20170418	BR20141108317	20121002
CN103841928 A	20140604	CN201280049014	20121002
CN103841928 B	20160413	CN201280049014	20121002
DE102011114920 A1	20130411	DE201110114920	20111006
DE102011114920 B4	20130620	DE201110114920	20111006
DE502012002472 D1	20150416	DE201250002472T	20121002
EP2763628 A1	20140813	EP20120775617	20121002
EP2763628 B1	20150304	EP20120775617	20121002
PL2763628 T3	20150630	PL20120775617T	20121002
RU2014117641 A	20151120	RU20140117641	20121002
RU2622370 C2	20170614	RU20140117641	20121002
TR201506697 T4	20150622	TR20150006697T	20121002
US2014243996 AA	20140828	US20120348980	20121002
US9603725 BB	20170328	US20120348980	20121002
WO13050135 A1	20130411	WO2012EP04125	20121002

Priority:

DE201110114920 20111006 EP20120775617 20121002 WO2012EP04125 20121002

Probable Assignee: OTTO BOCK HEALTHCARE GMBH

Assignee(s): (std)**:** BOCK HEALTHCARE GMBH ; FOERSTER HEIKO ; HEUBLEIN CHRISTIAN ; OTTO BOK KHELTKER GMBKH

Assignee(s): OTTO BOCK HEALTHCARE GMBH

Inventor(s): (std)**:** HELKO FOERSTER ; CHRISTIAN HEUBLEIN ; KHOJBLAJN KRISTIAN ; FERSTER KHAJKO ; HEUBLEIN CHRISTIAN ; FOERSTER HEIKO

Agent(s): GRAMM LINS AND PARTNER PATENT U RECHTSANWAELTE PARTGMBB; STORNEBEL KAI; YESIM METIN; HOLLAND AND HART LLP

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

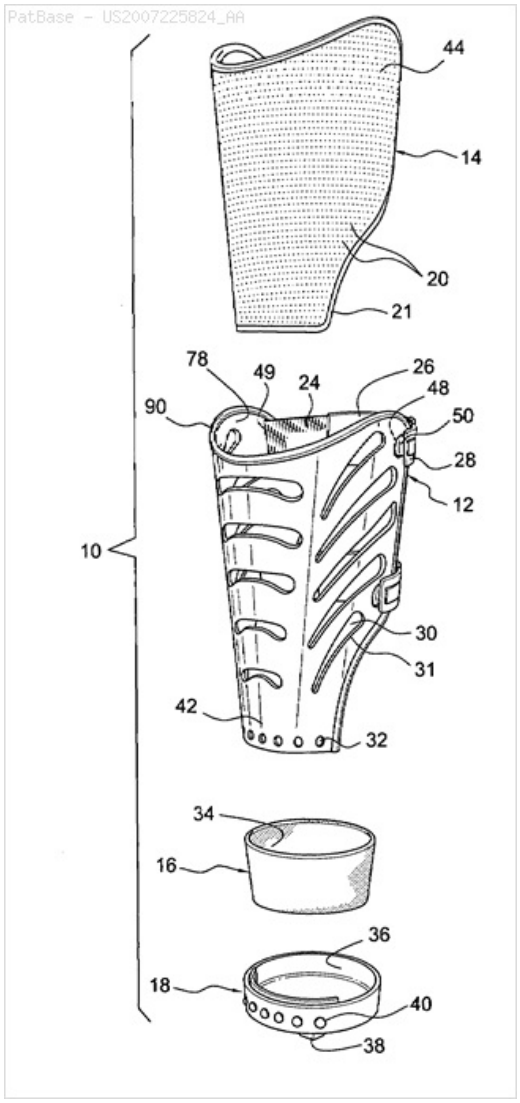
7) Family number: 37228515 (US2007225824A)

Title: VENTILATED PROSTHESIS SYSTEM

Abstract: A prosthesis system including a ventilated shell, and a substantially compliant, ventilated spacer element that defines a first surface having a frictional feature. The spacer element is arranged to secure to an internal surface of the shell. The prosthesis system also includes a connector that is secured to a distal end of the shell, and a retainer supported by the connector so as to extend into a cavity formed by the shell.

Classifications:

International (IPC 8-9): A61F2/60 A61F2/78
A61F2/80 (Advanced/Invention);
A61F2/50 A61F2/60 (Core/Invention)
CPC: A61F2/78 A61F2/80 A61F2002/5083 A61F2002/7818 A61F2002/7862
A61F2002/7881 A61F2240/001 A61F2250/0024
European: A61F2/78 A61F2/80 K61F2/50W2 K61F2/78C2 K61F2/78H
K61F2/78V K61F240/00M K61F250/00N8N
US: 623/32 623/33 623/33P 623/33S 623/36 623/36P 623/36S



Family:

Publication number	Publication date	Application number	Application date
AT525984 E	20111015	AT20070753792T	20070323
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DE602007017532 D1	20111124	DE200760017532T	20070323
EP1998722 A2	20081210	EP20070753792	20070323
EP1998722 A4	20100922	EP20070753792	20070323
EP1998722 B1	20110928	EP20070753792	20070323
US2007225824 AA	20070927	US20070723595	20070321
US2009082877 AA	20090326	US20080275459	20081121
US7488349 BB	20090210	US20070723595	20070321
US7867286 BB	20110111	US20080275459	20081121
WO07111971 A2	20071004	WO2007US07193	20070323
WO07111971 A3	20080327	WO2007US07193	20070323

Priority:

US20060785344P 20060324 US20070723595 20070321 EP20070753792 20070323
WO2007US07193 20070323 US20080275459 20081121

Probable Assignee: OSSUR HF

Assignee(s): (std)**:** EINARSSON PALMI ; OESSUR HF ; OSSUR HF ; OSSUR NORTH AMERICA INC

Assignee(s): KAUPTHING BANK HF

Inventor(s): (std)**:** EINARSSON PALMI ; PALMI EINARSSON

Inventor(s): EINARSSON PALMI SAN JUAN CAPISTRANO

Agent(s): KSNH PATENTANWAELTE KLUNKER SCHMITT NILSON HIRSCH; KLUNKER SCHMITT NILSON HIRSCH; BACON AND THOMAS PLLC

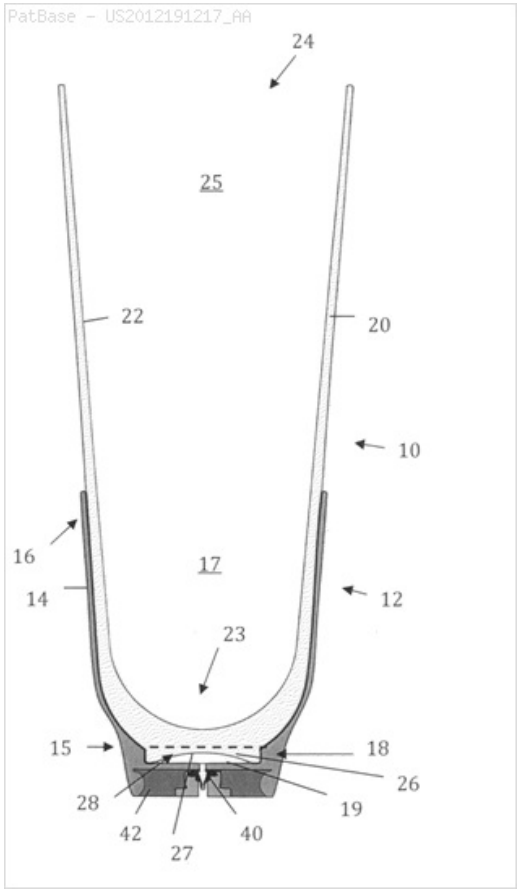
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

8) Family number: 51594463 (US2012191217A)

Title: SOCKET SYSTEM INCLUDING A VACUUM LINER FOR PROSTHETIC OR ORTHOTIC DEVICES AND ASSOCIATED METHODS

Abstract: The socket system includes a socket and a vacuum liner. A one-way valve is positioned within the closed distal end of the socket and provides controlled fluid communication between the interior socket space and an external environment. The closed distal end of the vacuum liner includes a distal portion formed of a higher durometer elastomeric material than the surrounding portions of the liner, and including a concave section extending from an external surface thereof towards the interior liner space. The socket, on the interior of the closed distal end thereof, includes a receiving portion that corresponds to and receives the distal portion of the vacuum liner 20 (e.g. matching the perimeter and depth of the distal portion). The receiving portion includes a bottom surface (e.g. a flat surface) opposite to the concave section of the vacuum liner when received therein, and defining an exterior liner space therewith.

Classifications:
International (IPC 8-9): A61F2/78 A61F2/80 B29C57/00 (Advanced/Invention); A61F2/74 A61F2/78 (Advanced/Non-invention)
CPC: A61F2/80 A61F2/7812 A61F2002/805 A61F2002/742 A61F2002/7818 Y10T29/49
European: A61F2/80 K61F2/78C K61F2/80S2
US: 29/592 29/592S 623/34 623/34P 623/36 623/36S



Family:

Publication number	Publication date	Application number	Application date
US2012191217 AA	20120726	US20110317279	20111013
US2015105866 AA	20150416	US20140575322	20141218
US8920518 BB	20141230	US20110317279	20111013
US9681964 BB	20170620	US20140575322	20141218

Priority:
US20100455179P 20101015 US20110317279 20111013 US20140575322 20141218

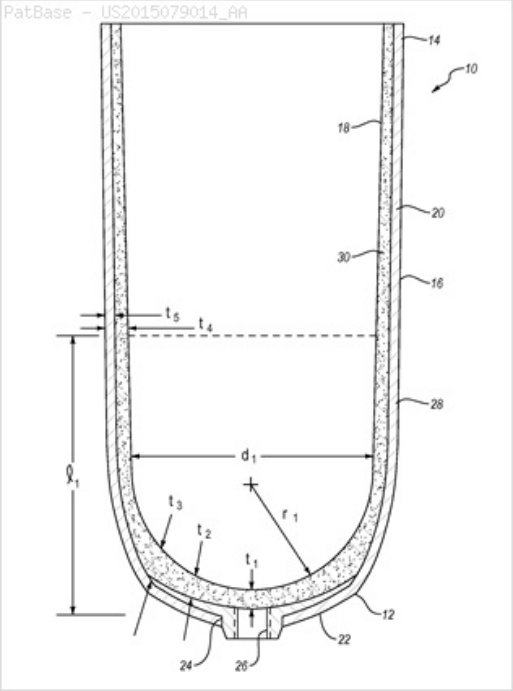
Probable Assignee: EVOLUTION IND INC
Assignee(s): (std): EVOLUTION IND INC ; MACKENZIE CRAIG ; OSSUR AMERICAS INC
Assignee(s): EVOLUTION INDUSTIRES INC
Inventor(s): (std): MACKENZIE CRAIG
Agent(s): WORKMAN NYDEGGER

9) Family number: 58729608 (US2015079014A)

Title: SILICONE-BASED PROSTHETIC AND ORTHOTIC LINERS WITH ANTIPERSPIRANT AND METHODS OF FORMING THE SAME

Abstract: Liners are adapted for use with a prosthetic or orthotic device, and provide a barrier and/or interface between a residual limb and a prosthetic socket, or between an orthotic device and the site of application. The prosthetic and orthotic liners include at least one antiperspirant, and methods of forming the same in an efficient, reliable manner. The liners may include aluminum-based antiperspirants such as Aluminum Zirconium Tetrachlorohydrex Glycine. The antiperspirants may be provided as a powder or anhydride, may first be constituted in a silicone-oil, and mixed under vacuum. The antiperspirant-oil mixture can be combined with silicone components and mixed under vacuum. The resulting complete mixture is then cast and cured into a silicone elastomer liner with antiperspirant dispersed and/or embedded.

Classifications:
International (IPC 8-9): A61F2/50 A61F2/78 A61F5/01 A61L27/30 A61L27/34 A61L27/54 (Advanced/Invention)
CPC: A61F2/5046 A61F2/7812 A61F5/01 A61F2002/5001 A61L27/306 A61L27/34 A61L27/54 A61L2300/102 A61L2300/602
US: 424/65 424/66 424/68



Family:

Publication number	Publication date	Application number	Application date
US2015079014 AA	20150319	US20140483364	20140911
WO15041913 A1	20150326	WO2014US55070	20140911

Priority:
US20130878806P 20130917 US20140483364 20140911

Probable Assignee: OSSUR HF

Assignee(s): (std)**:** OSSUR AMERICAS INC ; OSSUR HF

Inventor(s): (std)**:** GUDMUNDSDOTTIR SIGURBJORG SAEUNN ; SNORRADOTTIR BERGTHORA ; INGVARSSON THORVALDUR

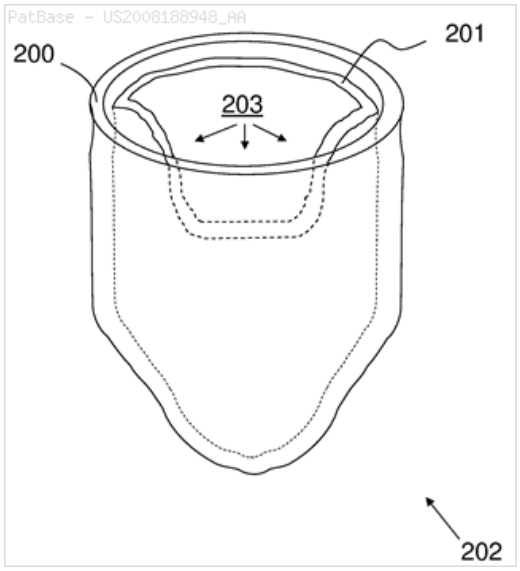
Agent(s): CASSELL JUSTIN J

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

10) Family number: 42077025 (US2008188948A)

Title: LINER SYSTEM AND LINER FOR PROSTHETICS AND METHOD FOR USING AND MAKING

Abstract: A prosthetic limb socket liner system is provided. A compressible foam insert has a substantially cylindrical hollow interior which is defined by an interior insert surface and an opening. The opening and the hollow interior are configured to accept a substantial portion of a residual limb. A laminar pocket substantially covers the insert. The laminar pocket includes an elastomeric fabric layer which defines a concave interior, another elastomeric fabric layer which defines an exterior of the laminar pocket, and a flexible polymer layer between the two elastomeric fabric layers and bonded to the elastomeric fabric layers. The pocket has an open proximal end, a closed distal end. The open end and the concave interior are configured to accept a substantial portion of the compressible foam insert. The exterior of the laminar pocket is configured to fit into a socket of a prosthetic limb.
Classifications:
International (IPC 8-9): A61F2/60 A61F2/80 B29C33/40 B32B37/06 B32B37/08 B32B37/10 (Advanced/Invention);
A61F2/50 A61F2/60 B29C33/40 B32B37/06 B32B37/08 B32B37/10 (Core/Invention)
CPC: A61F2/5046 A61F2/7812 A61F2/80 A61F2002/5053 A61F2002/5081 A61F2002/7806 A61F2002/7818 A61F2002/785 A61F2002/7875 B29C33/3878
European: A61F2/50M2 A61F2/78C A61F2/80 B29C33/38M2C K61F2/50M2M K61F2/50W K61F2/78A K61F2/78C2 K61F2/78C6 K61F2/78R
US: 264/222 264/222S 264/511 264/511S 623/33 623/33S 623/36 623/36P



Family:

Publication number	Publication date	Application number	Application date
US2008188948 AA	20080807	US20070671091	20070205

Priority:

US20070671091 20070205

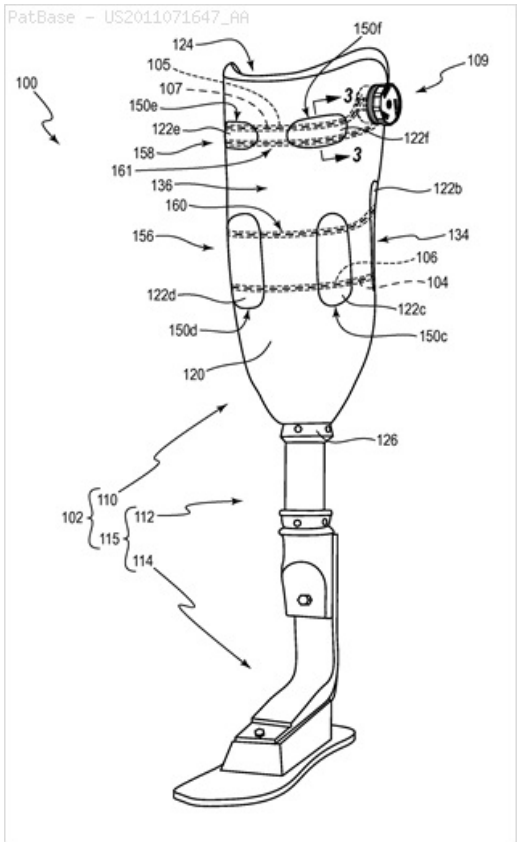
Probable Assignee:	FLATT TERRY J
Assignee(s): (std)**:**	FLATT TERRY J
Inventor(s): (std)**:**	FLATT TERRY J
Agent(s):	SCHMEISER OLSEN AND WATTS

11) Family number: 48494217 (US2011071647A)

Title: ADJUSTABLE PROSTHETIC INTERFACES AND RELATED SYSTEMS AND METHODS

Abstract: Prosthesis devices can include sockets having adjustable features. In one example, a socket includes one or more panels that can move outwardly or inwardly relative to a receptacle portion of the socket. The panels can be moved by tightening a tensioning line.

Classifications:
International (IPC 8-9): A61F2/50 A61F2/76 A61F2/78 A61F2/80 B23P11/00 B23P19/00 B23Q3/00 (Advanced/Invention)
CPC: A61F2/76 A61F2/5046 A61F2/80 A61F2002/5026 A61F2002/5027 A61F2002/503 A61F2002/5035 Y10T29/49826 Y10T29/49861 Y10T29/53 Y10T29/53796 Y10T29/53913
European: A61F2/50M2 A61F2/76 A61F2/80 K61F2/50G12 K61F2/50G6 K61F2/50G7 K61F2/50G9
US: 1/1 29/244 29/271 29/428 29/428S 29/445 29/700 29/700S 623/33 623/33P



Family:

Publication number	Publication date	Application number	Application date
US2011071647 AA	20110324	US20100886348	20100920
US2013247353 AA	20130926	US20130898248	20130520
US2019000650 AA	20190103	US20180938907	20180328
US8443501 BB	20130521	US20100886348	20100920
US9956094 BB	20180501	US20130898248	20130520
WO11035253 A1	20110324	WO2010US49516	20100920

Priority:

US20090243868P 20090918 US20100886348 20100920 US20130898248 20130520 US20180938907 20180328

Probable Assignee: CLICK HOLDINGS LLC

Assignee(s): (std): CLICK HOLDINGS LLC ; MAHON JOSEPH A

Inventor(s): (std): MAHON JOSEPH A

Agent(s): STOEL RIVES LLP; HIGGS DANIEL C

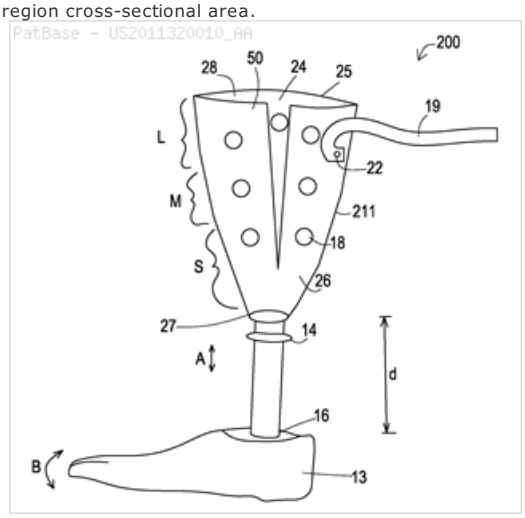
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

12) Family number: 46806446 (US2011320010A)

Title: PROSTHETIC DEVICES HAVING A UNIVERSAL SOCKET DESIGN AND METHODS OF MAKING AND USING THE SAME

Abstract: A prosthetic device (**10**) comprising: a universal socket (**11**) operatively adapted and sized to receive a variety of stump sizes, said universal socket comprising: a first socket open end (**25**) sized to receive a user stump, a second socket end (**27**) opposite the first socket end, at least two differently sized socket regions (L, M, S) positioned between the first socket open end and the second socket end, said at least two differently sized socket regions comprising an upper socket region proximate the first socket open end and a lower socket region positioned between the upper socket region and the second socket end, wherein the upper socket region has an upper region cross-sectional area, the lower socket region has an lower region cross-sectional area, and the upper region cross-sectional area is greater than the lower region cross-sectional area.

Classifications:
International (IPC 8-9): A61F2/78 (Advanced/Invention); A61F2/50 (Core/Invention)
CPC: A61F2/76 A61F2/78 A61F2/80
European: A61F2/76 A61F2/78 K61F2/80
US: 623/33 623/33P



Family:

Publication number	Publication date	Application number	Application date
US2011320010 AA	20111229	US20100254461	20100305
WO10102258 A1	20100910	WO2010US26435	20100305

Priority:

US20090157767P 20090305 US20090183095P 20090602 WO2010US26435 20100305 US20100254461 20100305

Probable Assignee: UNIV MERCER

Assignee(s): (std): UNIV MERCER ; VO HA VAN

Assignee(s): OF MERCER UNIV CORP

Inventor(s): (std): VO HA VAN

Agent(s): WITHERS JAMES D

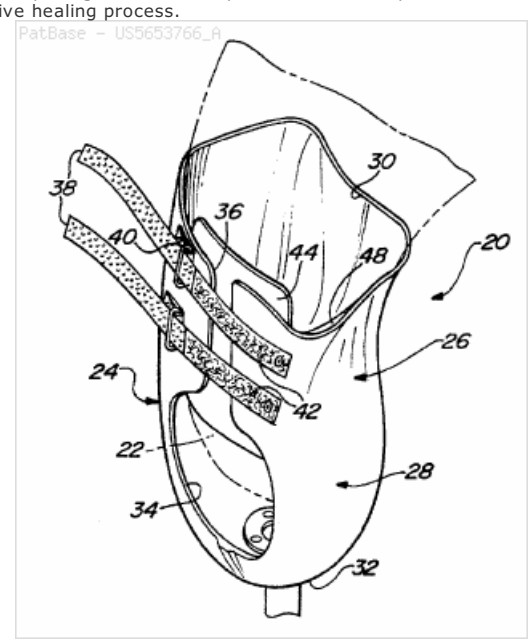
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

13) Family number: 13169925 (US5653766A)

Title: Post-operative prosthetic device

Abstract: A prosthetic device for use in rehabilitating a patient after a limb reduction surgery, allows the patient to begin learning to walk with a bendable knee joint that is typically used with a more permanent, later provided prosthetic. The inventive prosthetic device includes an adjustable first portion that is secured about a portion of the amputated limb and a second portion that provides axial and radial clearance between the terminal end of the amputated limb and the interior of the prosthetic sleeve. The second portion of the prosthetic sleeve also includes a radially defined opening that assists a patient or medical personnel in observing the terminal end of the amputated limb during the post-operative healing process.

Classifications:
International (IPC 8-9): A61F2/80 (Advanced/Invention); A61F2/00 A61F2/50 A61F2/78 (Advanced/Non-invention)
International (IPC 1-7): A61F2/80
CPC: A61F2/80 A61F2002/30428 A61F2002/5026 A61F2002/7881 A61F2220/0025
European: A61F2/80 K61F2/30A3T6 K61F2/50G6 K61F2/78V K61F220/00T
US: 602/23 602/62 623/32 623/33 623/36



Family:

Publication number	Publication date	Application number	Application date
US5653766 A	19970805	US19960605906	19960223

Priority:
US19960605906 19960223

Probable Assignee: MICHIGAN ORTHOPEDIC SERVICES L
Assignee(s): (std): MICHIGAN ORTHOPEDIC SERVICES L
Assignee(s): MICHIGAN ORTHOPEDIC SERVICES LLC ; JPMORGAN CHASE BANK NA
Inventor(s): (std): NASER AZIZ