

1) Family number: 43229895 (US2009125107A)

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Title: INTERFACED MEDICAL IMPLANT ASSEMBLY

Abstract: A medical implant assembly and method having a medical implant, e.g. a breast prostheses, attached to a biological interface. The biological interface is comprised of a dermal material with capsular contracture inhibiting properties so that once the medical assembly is inserted into the host, the biological interface, which is intimately coupled to the implant, prevents/reduces capsular contracture formation around the implant. The biological interface comprises a plurality of apertures along its periphery, and attaches to the medical implant by receiving a plurality of attachment flaps or appendages located on the exterior surface of the medical implant within or through the apertures. The attachment of the biological interface is such that the assembly remains intact even where the attachment flaps loosen upon expansion of the implant after insertion into a host, as where the implant is therein injected to a desired dimension.

Classifications:**International (IPC 8-9):** A61F2/02 A61F2/12 A61F2/52 A61L27/00

A61L27/36 A61L27/40 A61L27/50 (Advanced/Invention);

A61F2/00 A61L27/36 (Advanced/Non-invention);

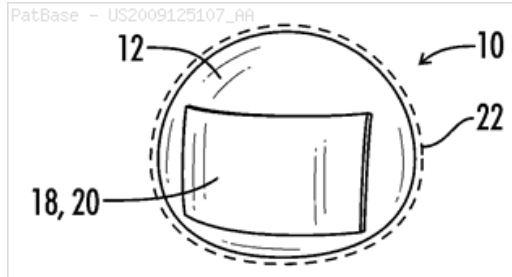
A61F2/02 A61F2/12 (Core/Invention);

A61F (Subclass/Invention)

International (IPC 1-7): A61F2/12**CPC:** A61F2002/0086 A61F2002/009 A61F2/0063 A61F2/12

A61F2220/0033 A61F2220/0075 A61L27/362 A61L27/50

A61L2430/04

European: A61F2/12 A61L27/36B8 K61F2/00L10 K61F2/00L11**US:** 424/423 424/423S 623/11.11 623/11.110S 623/7 623/8 623/8P**Family:**

Publication number	Publication date	Application number	Application date
AU2008322575 AA	20090522	AU20080322575	20081114
AU2008322575 BB	20130502	AU20080322575	20081114
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BRPI0820449 B1	20190521	BR2008PI20449	20081114
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CA2705349 C	20141028	CA20082705349	20081114
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EP2219557 A4	20180110	EP20080848844	20081114
EP2219557 B1	20190313	EP20080848844	20081114
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ES2724704 T3	20190913	ES20080848844T	20081114
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JP2013255812 A2	20131226	JP20130146598	20130712
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US2009125107 AA	20090514	US20080270686	20081113
US2011035004 AA	20110210	US20080109116	20080424
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US8876899 BB	20141104	US20130868373	20130423
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ZA201003362 A	20131030	ZA20100003362	20100512

Priority:

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AU20080322575 20081114	JP20100534217 20081114	EP20080848844 20081114
WO2008US83595 20081114	US20130868373 20130423	AU20130211521 20130801

Probable Assignee: PATRICK MAXWELL**Assignee(s):** (std): G PATRICK MAXWELL ; MAXWELL G ; MAXWELL G PATRICK ; PATRICK MAXWELL ; MAXWELL PATRICK**Assignee(s):** MAXWELL G PATRICK1500 CHICKERING ROADNASHVILLETN37215US ; MAXWELL PATRICK G**Inventor(s):** (std): G PATRICK MAXWELL ; MAXWELL G ; MAXWELL G PATRICK ; MAXWELL PATRICK G**Inventor(s):** MAXWELL G PATRICK1500 CHICKERING ROADNASHVILLETN37215US**Agent(s):** BALDWIN INTELLECTUAL PROPERTY; BEAGAR; EAGAR AND ASSOCIATES PTY LTD; EAGAR AND MARTIN PTY LTD; EAGAR BARRY MR; BARRY EAGAR; BERESKIN AND PARR LLP SENCRL SRL; DAVIES GREGORY MARK; FRKELLY; PONS ARINO ANGEL; OSHIMA AND PARTNERS; WADDEY AND PATTERSON PC; LUMEN PATENT FIRM; SHOUSE EMILY A**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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**2) Family number: 54344434** (US2015012089A)

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Title: BREAST PROSTHESES, METHODS OF MANUFACTURING BREAST PROSTHESES, AND METHODS OF TREATMENT USING BREAST PROSTHESES

Abstract: Improved breast prostheses, methods of making breast prostheses, and methods of treatment using such breast prostheses are described.

Classifications:

International (IPC 8-9): A61F A61F2/00 A61F2/12

B29C65/48 (Advanced/Invention);

B29K83/00 B29L31/00 B29L9/00 (Advanced/Non-invention)

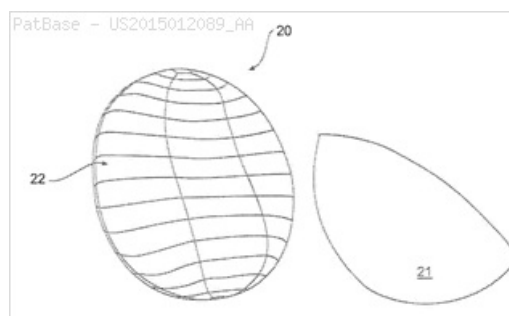
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A61F2210/0076 A61F2220/0016 A61F2220/0033 A61F2220/005

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US: 1/1 156/61 623/8



Family:

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DE602013009823 D1	20160908	DE201360009823T	20130110
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EP3081189 A1	20161019	EP20160171805	20130110
EP3081189 B1	20180704	EP20160171805	20130110
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ES2596522 T3	20170110	ES20130702528T	20130110
ES2689698 T3	20181115	ES20130171805T	20130110
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HK1230060 A1	20171201	HK20170103795	20170412
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US2017007394 AA	20170112	US20160271644	20160921
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US10004590 BB	20180626	US20160271644	20160921
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Priority:

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EP20160171805	20160527	US20160271644	20160921	US20180000158	20180605

Probable Assignee: LIFECELL CORP

Assignee(s): (std): LIFECELL CORP

Assignee(s): LIFECELL CORP BRANCHBURG ; WILMINGTON TRUST NATIONAL ASSOCIATION ; WILMINGTON TRUST NATIONAL ASSOCIATION COLLATERAL AGENT AS

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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: 50475243 (US2012010728A)

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Title: METHOD FOR SHAPING TISSUE MATRICES

Abstract: Methods for shaping tissue matrices are provided. The methods can be used to produce shaped tissue products that retain desired biologic properties without using chemical crosslinking agents.

Classifications:

International (IPC 8-9): A61F2/02 A61F2/12 A61L27/00 A61L27/24

A61L27/36 A61L27/50 B29C43/02 C07K14/78

C12N5/00 (Advanced/Invention)

CPC: A61L27/3604 A61L27/50 A61F2/12 A61F2/186 A61L27/24

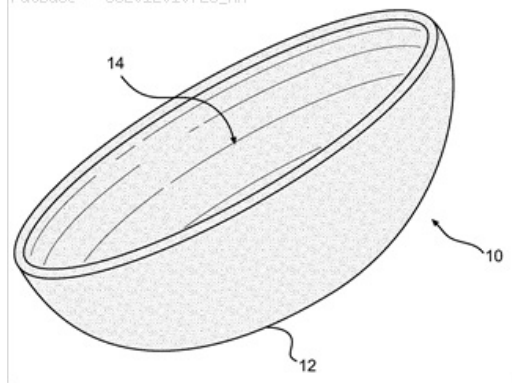
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C12N5/0081

European: A61L27/36B A61L27/50

US: 1/1 264/479 264/479S 530/356 530/356S 623/23.72

623/23.720P 623/7

**Family:**

Publication number	Publication date	Application number	Application date
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US2012010728 AA	20120112	US20110177720	20110707
US2017100509 AA	20170413	US20160378447	20161214
US9636435 BB	20170502	US20110177720	20110707
WO12006390 A1	20120112	WO2011US43129	20110707

Priority:

US20100362424P 20100708 CA20112804592 20110707 EP20110738529 20110707
 US20110177720 20110707 WO2011US43129 20110707 US20160378447 20161214

Probable Assignee: LIFECELL CORP**Assignee(s):** (std): LIFECELL CORP ; MONTEIRO GARY ; SUN WENDELL**Assignee(s):** WILMINGTON TRUST NATIONAL ASSOCIATION ; WILMINGTON TRUST NATIONAL ASSOCIATION
COLLATERAL AGENT AS**Inventor(s):** (std): MONTEIRO GARY ; SUN WENDELL**Agent(s):** SHELSTON IP; SHELSTON IP PTY LTD; BORDEN LADNER GERVAIS LLP; ASHTON TIMOTHY; GOWSHALL
JONATHAN VALLANCE; KITA AOYAMA INT PATENT BUREAU; MCCARTER AND ENGLISH LLP; MATTHEW
R; RACITI ERIC P ET AL**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
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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**4) Family number: 68718561 (US2018055624A)**

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Title: BREAST TREATMENT DEVICE**Abstract:** The present disclosure provides devices and methods for treating breasts. The devices can include an acellular tissue matrix having a predefined shape that allows for complete or enhanced coverage of an anterior portion of a breast implant or tissue expander or to support an implant and/or surrounding tissues.**Classifications:****International (IPC 8-9):** A61F A61F2/00 A61F2/12 A61L27/36

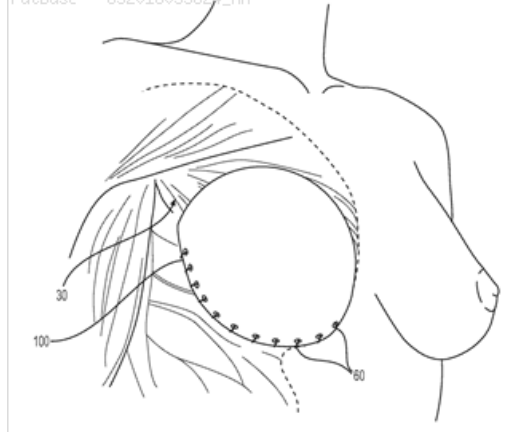
A61L27/56 (Advanced/Invention);

A61F2/00 (Advanced/Non-invention)

International (IPC 1-7): A61F2/00 A61F2/12 A61L27/36**CPC:** A61L2430/34 A61F2/0063 A61F2/12 A61F2210/0057

A61F2220/0008 A61F2230/0008 A61F2230/0013 A61L27/362

A61L27/3666 A61L27/3695 A61L27/56 A61L2430/04 A61L27/3641

US: 1/1 623/8**Family:**

Publication number	Publication date	Application number	Application date
AU2017318580 AA	20190307	AU20170318580	20170831
BR112019004011 A2	20190604	BR20191104011	20170831
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CN109640884 A	20190416	CN201780051355	20170831
CO20190001664 A2	20190318	CO20190001664	20190225
EP3506854 A1	20190710	EP20170765528	20170831
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IN201917011667 A	20190705	IN201917011667	20190326
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US2018055624 AA	20180301	US20170691865	20170831
US2019201580 AA	20190704	US20170329010	20170831
WO18045118 A1	20180308	WO2017US49516	20170831

Priority:

US20160381865P 20160831 US20170329010 20170831 US20170691865 20170831
WO2017US49516 20170831

Probable Assignee: LIFECELL CORP

Assignee(s): (std): LIFECELL CORP

Assignee(s): PARK SANGWOOK ; WANG KAI ROY ; BARERE AARON

Inventor(s): (std): AARON BARERE ; BARERE AARON ; PARK SANGWOOK ; SANGWOOK PARK ; KAI ROY WANG ; PARK SANG WOOK ; WANG KAI ROY ; WANG KAL ROY

Agent(s): SHELSTON IP PTY LTD; BORDEN LADNER GERVAIS LLP; MARINO PORZIO; ASHTON TIMOTHY; VAN EMAN MATTHEW R ET AL

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 DJ 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 JO JP KE KG KH KM KN KP KR KW 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 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

5) Family number: 48202387 (US2011022171A)

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Title: GRAFT MATERIALS FOR SURGICAL BREAST PROCEDURES

Abstract: Graft materials and devices for surgical breast procedures, as well as methods of making graft devices are described.

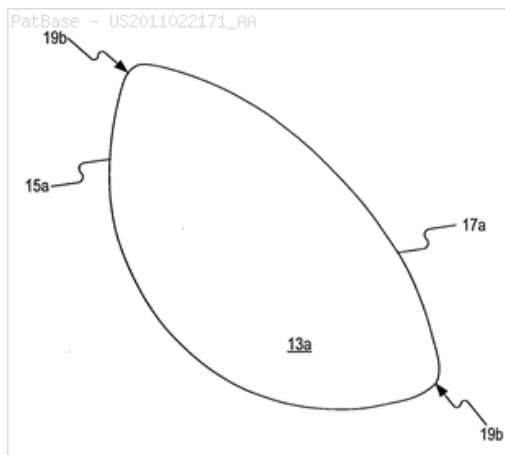
Classifications:

International (IPC 8-9): A61B17/08 A61F2/00 A61F2/02 A61F2/12 A61L27/00 A61L27/36 A61L31/00 B23P13/04 (Advanced/Invention); A61F2/00 A61L27/36 (Advanced/Non-invention)

CPC: A61F2/0063 A61F2/12 A61F2210/0004 A61F2230/0008 A61F2310/00365 Y10T29/49995 A61L27/362 A61L27/3637 A61L27/3683 A61L27/3695 A61L2430/04

European: A61F2/12

US: 1/1 29/557 29/557S 600/37 606/151 623/23.72 623/8 623/8P



Family:

Publication number	Publication date	Application number	Application date
AU2010276354 AA	20110127	AU20100276354	20100720
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Priority:

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Probable Assignee: LIFECCELL CORP

Assignee(s): (std): BACHRACH NATHANIEL ; BARERE AARON ; FRIEDMAN EVAN ; LIFECCELL CORP ; RICHTER MELISSA ; KINETIC CONCEPT INC

Assignee(s): KINETIC CONCEPTS INC ; TECHNIMOTION LLC ; WILMINGTON TRUST NATIONAL ASSOCIATION ; WILMINGTON TRUST NATIONAL ASSOCIATION COLLATERAL A ; WILMINGTON TRUST NATIONAL ASSOCIATION COLLATERAL AGENT AS ; KCI LICENSING INC ; BANK OF AMERICA NA ; BANK OF AMERICA NA COLLATERAL AGENT AS

Inventor(s): (std): AARON BARERE ; BACHRACH NATHANIEL ; BARERE AARON ; BARERE AARON M ; BOWLEY MELISSA RICHTER ; EVAN FRIEDMAN ; FRIEDMAN EVAN ; FRIEDMAN EVAN J ; MELISSA RICHTER ; NATHANIEL BACHRACH ; RICHTER MELISSA

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; BORDEN LADNER GERVAIS LLP; ASHTON TIMOTHY; KITA AOYAMA INT PATENT BUREAU; FINNEGAN/KCI; FINNEGAN KCI; MCCARTER AND ENGLISH LLP; RACITI ERIC P ET AL

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 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 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

6) Family number: 55251407 (US2016199173A)

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Title: BREAST PROSTHESIS SUPPORT DEVICE BASED ON TISSUE MATRIX MATERIAL, AND PREPARATION METHOD THEREFOR

Abstract: The present invention relates to a support device for breast prosthesis based on an acellular matrix material of a biological tissue. The support device for breast prosthesis is formed by tailoring a membranaceous material into a petal-shaped planar biological matrix blank and by connecting adjacent edges thereof. The support device can match with the breast prosthesis; and provide a support, fixation and coverage for the breast prosthesis in various surgical operations such as mammoplasty and breast orthopedics, to avoid the ptosis and translocation of the breast prosthesis, thereby achieving desirable effects of plastic surgery. Once being implanted, the matrix material of a biological tissue can be integrated into the surrounding breast tissue of the subject, and thus transformed into new tissues in human body without the retention of foreign bodies. The present invention further relates to a method for manufacturing a support device, and a membranaceous biological matrix material.

Classifications:

International (IPC 8-9): A61F2/12 A61L27/24

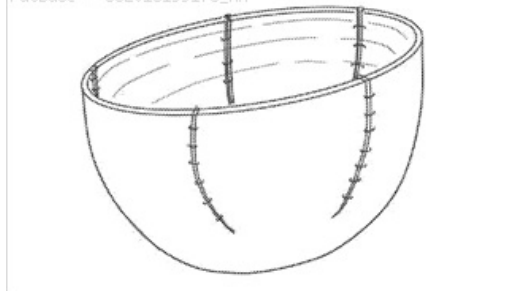
A61L27/36 (Advanced/Invention)

CPC: A61F2/12 A61F2230/0095 A61F2240/001 A61L27/3641

A61L2430/04

US: 1/1 435/395 623/8

PatBase - US2016199173_AA



Family:

Publication number	Publication date	Application number	Application date
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Priority:

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EP20140836791	20140529				

Probable Assignee: BEIJING RUIJIAN GAOKE BIOTECHNOLOGY CO LTD

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Assignee(s): BEIJING RUIJIAN GAOKE BIOLOGICAL SCIENCE AND TECHNOLOGY CO ; BEIJING RUIJIAN GAOKE BIOTECHNOLOGY CO

Inventor(s): (std): LIU ZHIGANG ; LIU XINHUA ; LIU ZHI GANG ; ZHIGANG LIU ; XINHUA LIU

Agent(s): WILLIAMS RICHARD ANDREW NORMAN; HGF LTD; DURAN CORRETJER SLP DURAN CORRETJER SLP; ARAI EIICHI; FUJITA TAKASHI; TANAKA NATSUO; HIRAKI YUSUKE; BANNER AND WITCOFF LTD; WAN HUI DA INTELLECTUAL PROPERTY AGENCY

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 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 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

7) Family number: 65086591 (US2017071725A) © PatBase

Title: BREAST TREATMENT DEVICE

Abstract: The present disclosure provides devices and methods for treating the breast. The devices can include an acellular tissue matrix having a predefined shape. The shape can include a first edge with an S-shaped configuration and a second arcuate-shaped edge. The shape alternatively can include a first concave edge and a second convex edge.

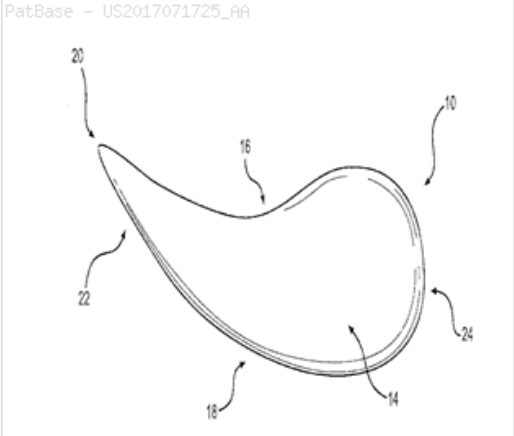
Classifications:

International (IPC 8-9): A61F2/12 A61L27/36 (Advanced/Invention)

CPC: A61F2/12 A61F2230/0013 A61L27/362 A61L27/3633

A61L27/3695

US: 1/1 623/8



Family:

Publication number	Publication date	Application number	Application date
AU2016310471 AA	20180329	AU20160310471	20160819
AU2016310471 AA	20170302	AU20160310471	20160819
CA2996287 AA	20180221	CA20162996287	20160819
EP3337427 A1	20180627	EP20160758336	20160819
US2017071725 AA	20170316	US20160241388	20160819
WO17034952 A1	20170302	WO2016US47713	20160819

Priority:

US20150208366P 20150821 US20160241388 20160819 WO2016US47713 20160819

Probable Assignee: LIFECELL CORP

Assignee(s): (std): LIFECELL CORP

Assignee(s): PARK SANGWORK ; WANG KAI ROY ; WILMINGTON TRUST NATIONAL ASSOCIATION COLLATERAL AGENT AS ; BARERE AARON M ; FRIEDMAN EVAN J

Inventor(s): (std): BARERE AARON M ; FRIEDMAN EVAN J ; PARK SANGWORK ; WANG KAI ROY ; PARK SANGWOOK

Agent(s): DAVIES COLLISON CAVE PTY LTD; GOWLING WLG CANADA LLP; HOFFMANN EITL; WELCH GERALD T ET AL

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 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 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

8) Family number: 60278167 (US2015250582A) © PatBase

Title: BREAST RECONSTRUCTION DEVICE

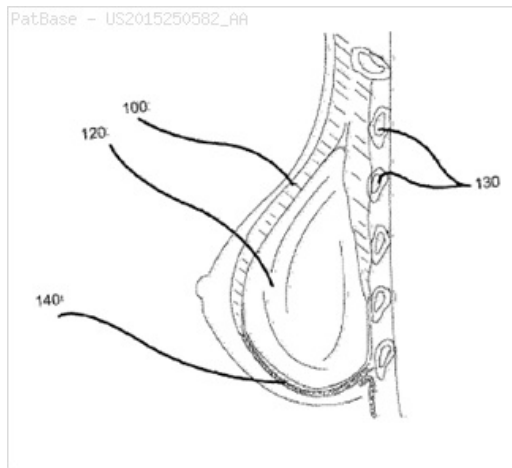
Abstract: A hybrid medical device that can aid in reconstructive or augmentative surgery of the breast is disclosed. The device can utilize a suitable biological collagen tissue matrix combined with a synthetic material, for example, that can impart a high initial strength to the repair site while permitting proper healing and revitalization of the implanted device.

Classifications:

International (IPC 8-9): A61F2/00 A61F2/12 A61L27/24 A61L31/00 A61L31/14 (Advanced/Invention)

CPC: A61F2/0063 A61F2/12 A61F2210/0004 A61F2210/0076 A61F2220/0075 A61F2230/0008 A61F2250/0003 A61F2250/0017 A61F2250/0018 A61F2250/0023 A61F2250/0028 A61F2250/0029 A61F2250/003 A61F2250/0031 A61F2250/0078 A61L31/005 A61L31/14 Y10T29/49947 A61F2/0059 A61F2002/0068 A61F2240/001 A61L27/24 A61L2430/04

US: 1/1 112/475.17 29/525.01 623/8

**Family:**

Publication number	Publication date	Application number	Application date
US2015250582 AA	20150910	US20150640014	20150305
US2016324618 AA	20161110	US20160214209	20160719
US2017027678 AA	20170202	US20160214229	20160719
US10130457 BB	20181120	US20150640014	20150305
US10500030 BB	20191210	US20160214209	20160719

Priority:

US20140948518P 20140305 US20150640014 20150305 US20160214209 20160719
 US20160214229 20160719

Probable Assignee: TELA BIO INC

Assignee(s): (std): GREENHALGH E SKOTT ; ROMANO JOHN PAUL ; TELA BIO INC

Assignee(s): ORBIMED ROYALTY OPPORTUNITIES II LP ; HERCULES CAPITAL INC ; MIDCAP FINANCIAL TRUST AGENT AS ; ORBIMED PRIVATE INVESTMENTS IV LP

Inventor(s): (std): ROMANO JOHN PAUL ; GREENHALGH E SKOTT

Agent(s): LEVINE BAGADE HAN LLP

9) Family number: 63986307 (US2016331504A)

© PatBase

Title: TISSUE MATRICES AND METHODS OF TREATMENT

Abstract: Methods, systems, and compositions for treatment are provided. The methods can be used to stretch and completely or nearly completely wrap a composition around an implant or tissue expander. The systems can be used to protect an implant or tissue expander by completely or nearly completely wrapping a composition around the implant or tissue expander. The compositions can be used to completely or nearly completely wrap around an implant or tissue expander to provide support and protection to the implant or tissue expander.

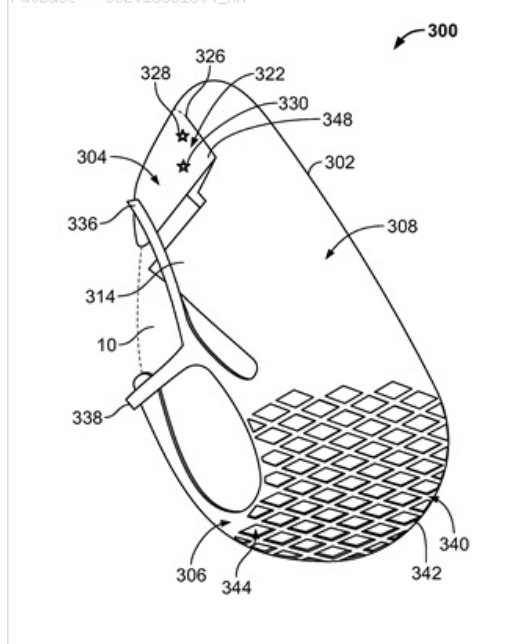
Classifications:

International (IPC 8-9): A61B90/00 A61F A61F2/00 A61F2/12 A61L27/36 (Advanced/Invention)

CPC: A61F2220/0008 A61F2002/0068 A61B90/02 A61F2/0063 A61F2/12 A61F2220/0075 A61L27/3666 A61L2430/04

US: 1/1 623/8

PatBase - US2016331504_AA

**Family:**

Publication number	Publication date	Application number	Application date
AU2016265286 AA	20171109	AU20160265286	20160427
CA2985537 AA	20171108	CA20162985537	20160427
EP3294211 A1	20180321	EP20160724754	20160427
HK1253775 A1	20190705	HK20180112107	20180920

JP2018518237 T2	20180712	JP20170558996T	20160427
US2016331504 AA	20161117	US20160139458	20160427
US2019247175 AA	20190815	US20190388966	20190419
US10307237 BB	20190604	US20160139458	20160427
WO16186803 A1	20161124	WO2016US29411	20160427

Priority:

US20150161971P 20150515 US20160139458 20160427 WO2016US29411 20160427
US20190388966 20190419

Probable Assignee: LIFECCELL CORP

Assignee(s): (std): LIFECCELL CORP

Assignee(s): PARK SANGWOOK ; WANG KAI ROY ; WILMINGTON TRUST NATIONAL ASSOCIATION COLLATERAL
AGENT AS ; BARERE AARON

Inventor(s): (std): BARERE AARON ; WANG KAI ROY ; PARK SANGWOOK

Agent(s): SHELSTON IP PTY LTD; BORDEN LADNER GERVAIS LLP; ASHTON TIMOTHY; ROBIN BRIDGE AND JOHN
LIU; KITA AOYAMA INT PATENT BUREAU; MCCARTER AND ENGLISH LLP; VAN EMAN MATTHEW R ET AL

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 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 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