

Search history

Search [SP]: INTRAVAGINAL DEVICE WITH COUPLING PROGESTERONE ACTIVE PIPE, support 2 in Y with tabs (3) from which a body (5) is projected

1: characterized by receiving a section cut from a tube (6) of extruded polymer with progesterone containing a dose unique of the hormone inserted in the body (5) and fixed by an appendix (4) of the support (2) and injected into an inert material. (Results 100)

Search SFT=(intravaginal and device and progesterone and pipe and active) and PD<20160302 and CPC=(a61m) (Results 0)

2:

Search SFT=(intravaginal and device and progesterone and pipe and active) and PD<20160302 and CPC=(a61m) (Results 0)

3:

Search SFT=(intravaginal and device and progesterone) and PD<20160302 and CPC=(a61m) (Results 44)

4:

1) Family number: 49023 (US2002141945A)

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Title: Stable glassy state powder formulations

Priority: US19950423515 19950414 WO1996US05070 19960412 US19960733225 19961017
EP19970913707 19971014 US19970950385 19971014 WO1997US18901 19971014
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US20000531183 20000321 US20010879853 20010611 US20030413016 20030414

Family:

Publication number	Publication date	Application number	Application date
AT245969 E	20030815	AT19970913707T	19971014
AU199850834 A1	19980511	AU19980050834	19971014
AU734891 B2	20010628	AU19980050834	19971014
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CA2274758 C	20090929	CA19972274758	19971014
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ZA9709145 A	19980511	ZA19970009145	19971013

Probable Assignee: NEKTAR THERAPEUTICS

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Inventor(s): L C FOSTER ; S R BILLINGSLEY ; MEI CHNAG KUO

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Designated states: AL AM AT AU AZ BA BB BE BG BR BY CA CH CN CU CZ DE DK EE ES FI FR GB GE GH GR HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SL SZ TJ TM TR TT UA UG US UZ VN YU ZW

International class (IPC 8-9): A61K A61K31/135 A61K31/70 A61K31/715 A61K38/00 A61K38/23 A61K38/28 A61K38/38 A61K38/55 A61K38/57 A61K39/395 A61K9/00 A61K9/12 A61K9/14 A61K9/16 A61K9/72 A61M11/00 A61M15/00 A61M16/00 A61P11/00 A61P37/04 A61P5/12 (Advanced/Invention); A61K9/00 A61K9/72 A61M15/00 (Advanced/Non-invention); A61K9/00 A61K9/14 A61K9/72 (Core/Invention)

International class (IPC 1-7): A01N25/00 A61K31/135 A61K38/23 A61K38/28 A61K38/38 A61K39/395 A61K47/06 A61K9/12 A61K9/14 A61K9/16 A61K9/72 A61P11/00 A61P3/10 A61P5/00

CPC: A61K9/145 A61K9/146 Y10S514/951 A61K9/1617 A61K9/0075 A61K9/1623 A61K9/1635 A61K9/1652 A61K9/1658 A61K9/1688 A61K9/1694 A61K38/28 A61K38/57 A61M15/0086 A61M2205/073 A61K39/39591 A61K2039/544 C07K16/06 C07K2317/52

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US class: 128/203.15 424/130.1 424/434 424/45 424/46 424/46P 424/484 424/484P 424/486 424/486S 424/488 424/488S 424/489 424/499 424/501 424/502 514/951

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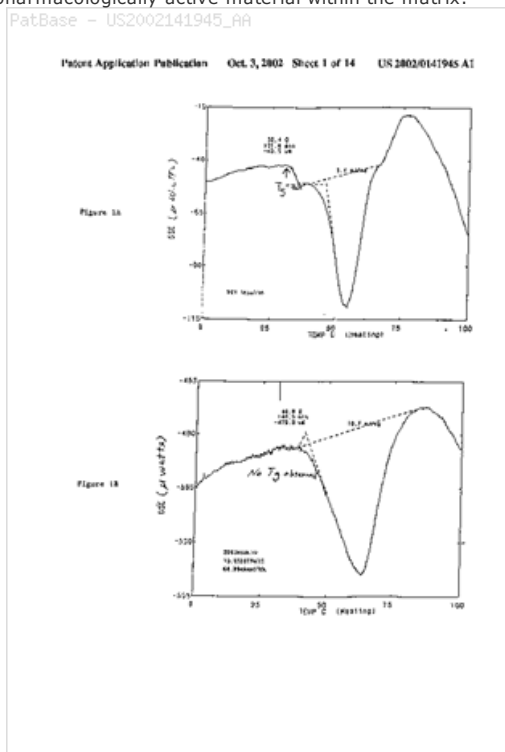
Forward Citations: WO19057566, WO19051424, WO18138297, WO18116178, WO18083248, WO18078186, WO18014039, WO18014038, WO17220990, WO17220989, WO17220988, WO17214456, WO17214322, WO17210278, WO17172771, WO17151979, WO17142928, WO17125897, WO17106716, WO17072662, WO17070561, WO17046676, WO16203432, WO16176552, WO16139482, WO16120828, WO16118921, WO16094881, WO16092508, WO16067252, WO16061448, WO16024195, WO16020791, WO15191760, WO15138615, WO15138337, WO15134894, WO15110930, WO15109212, WO15095539, WO15084883, WO15077273, WO15073580, WO15021089, WO14198004, WO14194293, WO14190356, WO14190204, WO14160160, WO14159239, WO14144355, WO14124316, WO14124258, WO14100823, WO14100483, WO14072876, WO14011955, WO13184514, WO13112922, WO13093809, WO13090841, WO13090635, WO13090633, WO13084147, WO13063110, WO13063095, WO13025779, WO13016754, WO13010955, WO12162068, WO12145493, WO12121775, WO12088094, WO12069466, WO12024650, WO12024187, WO12022985, WO12022814, WO12018687, WO12018476, WO12006596, WO12006500, WO11161491, WO11143562, WO11138392, WO11138391, WO11137395, WO11130377, WO11116090, WO11085343, WO11070045, WO11048379, WO11048379, WO11044368, WO11035205, WO11025964, WO11020079, WO10151526, WO10141329, WO10138868, WO10104815, WO10099079, WO10093627, WO10084499, WO10080538, WO10059836, WO10054403, WO10051274, WO10027364, WO09149185, WO09092011, WO09074634, WO09074634, WO09015037, WO08157379, WO08136694, WO07070851, WO07070851, WO07024715, WO06125202, WO06119115, WO06102095, WO05113007, WO05113007, WO05079755, WO05067898, WO05067898, WO05047323, WO05020953, WO05000267, WO04019912, WO04019912, WO0215880, WO0215880, WO02094243, WO02094243, WO02089916, WO02080967, WO0187278, WO0113893, WO0113893, USRE45763, USRE43711, US9988437, US9983108, US9980904, US9963503, US9951128, US9951125, US9944720, US9943571, US9932400, US9925144, US9896508, US9884020, US9879067, US9854978, US9841427, US9840554, US9827205, US9822171, US9815902, US9809693, US9808030, US9803007, US9803005, US9802012, US9801925, US9796688, US9790478, US9744130, US9738728, US9737599, US9737578, US9737518, US9732162, US9731020, US9717689, US9714296, US9714295, US9708408, US9706944, US9700690, US9700529, US9695236, US9688979, US9687487, US9682153, US9675674, US9670276, US9663587, US9663574, US9662461, US9655969, US9655850, US9642798, US9636398, US9630930, US9623094, US9617352, US9617334, US9610351, US9605069, US9592293, US9592289, US9554993, US9540432, US9511198, US9505829, US9504750, US9504265, US9499590, US9493560, US9487587, US9481777, US9481736, US9481735, US9480276, US9469692, US9469690, US9469689, US9469688, US9469686, US9463161, US9447184, US9447183, US9446133, US9446001, US9441049, US9441038, US9440034, US9439907, US9439862, US9434784, US9433576, US9421166, US9415009, US9409986, US9403900, US9394363, US9394360, US9393372, US9371378, US9371377, US9371374, US9370629, US9365643, US9365638, US9364619, US9364436, US9359430, US9358352, US9346766, US9339615, US9321831, US9309310, US9308208, US9303085, US9285276, US9283274, US9283193, US9272032, US9243069, US9243067, US9241903, US9238005, US9233159, US9233158, US9228019, US9221901, US9220687, US9211382, US9206251, US9192675, US9176150, US9175087, US9175075, US9163093, US9150656, US9139642, US9132190, US9120870, US9120862, US9120031, US9119778, US9115195, US9109026, US9107861, US9102722, US9096877, US9096677, US9089529, US9079949, US9072310, US9067996, US9066925, US9062108, US9062101, US9061352, US9046513, US9045551, US9044497, US9035027, US9029508, US9028815, US9011852, US8993730, US8992983, US8991387, US8987419, US8987418, US8986686, US8980262, US8968730, US8962803, US8955512, US8951517, US8946387, US8912193, US8911733, US8906864, US8895004, US8882347, US8877190, US8877162, US8871267, US8852608, US8846901, US8841417, US8835610, US8829182, US8822645, US8821437, US8815258, US8808713, US8802149, US8802093, US8802091, US8785599, US8784808, US8779101, US8778339, US8759369, US8758824, US8735546, US8722855, US8716450, US8715623, US8709484, US8703806, US8691224, US8680239, US8673357, US8669349,

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EP1637128, EP1637128, EP1635762, EP1635762, EP1534335, EP1512429, EP1467720, EP1136068, EP1136068, DE102004022926, CN105722392, CN105640925, CN103200938, CN103200938, CN102665684, AU2004288854, AU2004251623,

Abstract:

A powdered, dispersible composition having stable dispersibility over time is provided. The composition exhibits a characteristic glass transition temperature (T_g) and a recommended storage temperature (T_s), wherein the difference between T_g and T_s is at least about 10 degrees centigrade (i.e. $T_g - T_s$ is greater than 10 degrees centigrade). The composition comprises a mixture of a pharmaceutically-acceptable glassy matrix and at least one pharmacologically active material within the glassy matrix. It may be further mixed with a powdered, pharmaceutically-acceptable carrier. It is particularly valuable in unit dosage form having a moisture barrier, in combination with appropriate labelling instructions. A process for producing a powdered dispersible composition is also provided, wherein the process comprises removing the solvent from a solution comprising a solvent, a glass former and a pharmacologically active material under conditions sufficient to form a glassy matrix having the pharmacologically active material within the matrix.



2) Family number: 56036030 (US2014088486A)

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Title: DRUG RECONSTITUTION AND DELIVERY DEVICE AND METHODS

Priority: US20120629184 20120927

Family:

Publication number	Publication date	Application number	Application date
AR092583 AA	20150429	AR2013P103313	20130916
US2014088486 AA	20140327	US20120629184	20120927
US9999720 BB	20180619	US20120629184	20120927
WO14051836 A1	20140403	WO2013US51519	20130722
WO14051836 A8	20140530	WO2013US51519	20130722

Probable Assignee: PALO ALTO RESEARCH CENTER INC

Assignee(s):(std): PALO ALTO RES CENTER INC ; PALO ALTO RES CT INC ; PALO ALTO RSEARCH CT INC

Assignee(s): PALO ALTO RESEARCH CENTER INC ; PALO ALTO RSEARCH CENTER INC

Inventor(s):(std): LINN FELICIA ; RECHT MICHAEL I ; UHLAND SCOTT A

Agent(s): HOLLINGSWORTH DAVIS LLC ; KING KEVIN W 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 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 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

International class (IPC 8-9): A61M31/00 A61M37/00 A61M5/00 A61M5/142 A61M5/19 A61M5/24 (Advanced/Invention); A61M5/145 (Advanced/Non-invention)

CPC: A61M5/14276 A61M5/14526 A61M5/19 A61M5/2448 A61M2005/14513

US class: 604/20 604/515 604/518 604/520 604/87

[Classification Explorer](#)

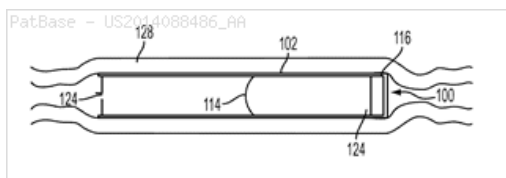
Cited documents: WO9741831 A1, WO9418952 A1, WO9401165 A1, WO19741831, WO19418952, WO19401165, WO10048478 A2, WO09081411 A2, WO07140416 A2, WO07047811 A2, WO07041119 A1, WO05089728 A2, WO05056708 A2, WO0112101 A1, US7732408 BB, US7497855 BB, US7486989 BB, US7083590 BA, US7004171 BB, US6978172 BB, US6962579 BB, US6835392 BB, US6805877 BB, US6776164 BB, US6756053 BB, US6638246 BA, US6591133 BA, US6532386 BB, US6500150 BA, US6461334 BA, US6450991 BA, US6444224 BA, US6423039 BA, US6352524 BA, US6322532 BA, US6183434 BA, US6139538 A, US6086909

A, US6030375 A, US5951538 A, US5928195 A, US5816248 A, US5780058 A, US5593552 A, US5522804 A, US5415629 A, US5354264 A, US5318557 A, US5135499 A, US5112614 A, US5090963 A, US5062834 A, US5002540 A, US4902278 A, US4886514 A, US4687423 A, US4640445 A, US4599082 A, US4402695 A, US4308867 A, US4304232 A, US2013211372 AA, US201213629159, US201213629124, US2011092906 AA, US2011087195 AA, US2011087192 AA, US2011087155 AA, US2010202246 AA, US2009308752 AA, US2009308751 AA, US2009306633 AA, US2009281528 AA, US2009281518 AA, US2009171315 AA, US2009131737 AA, US2008269666 AA, US2008262412 AA, US2008004596 AA, US2008004564 AA, US2007269385 AA, US2007225634 AA, US2007038181 AA, US2006184092 AA, US2006024358 AA, US2005267440 AA, US2005244502 AA, US2005124875 AA, US2005054969 AA, US2005000514 AA, US2004219192 AA, US2004122359 AA, US2004087893 AA, US2004082937 AA, US2004059388 AA, US2003219472 AA, US2003130558 AA, US2003018295 AA, US2002045883 AA, US2002010414 AA, DE4130843 A1,

Forward Citations: WO16022816, US9801660, US9717526, US9682039, US9204895,

Abstract:

Devices and methods are provided for drug delivery. The device may include a housing having a first compartment containing a drug in a dry, solid form, a second compartment containing a liquid carrier for the drug, and an expansion member located within or adjacent to the first or second compartment. The second compartment may be fluidly connectable to the first compartment by a rupturable barrier or mechanical valve. The device may also include an actuation system configured to expand the expansion member to rupture the rupturable barrier or open the mechanical valve and permit the liquid carrier to flow into the first compartment and mix with the drug to form a reconstituted drug solution.



3) Family number: 55344039 (US2013331693A)

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Title: METHODS FOR INCREASING GENETIC PROGRESS IN A LINE OR BREED OF SWINE USING SEX-SELECTED SPERM CELLS

Priority: US20120656446P 20120606 US20130840598 20130315 US20130406186 20130606
US20130656446P 20130606 WO2013US44521 20130606 US20130090979 20131126
WO2013US72272 20131127 US20140406186 20141205 US20170655663 20170720
US20170853010 20171222

Family:	Publication number	Publication date	Application number	Application date
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	BR112015023623 A2	20180508	BR20151123623	20131127
	CA2875058 AA	20141127	CA20132875058	20130606
	CA2904193 AA	20150904	CA20132904193	20131127
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	WO13184922 A3	20150129	WO2013US44521	20130606
	WO14143223 A1	20140918	WO2013US72272	20131127

Probable Assignee: INGURAN LLC

Assignee(s):(std): INGURAN LLC

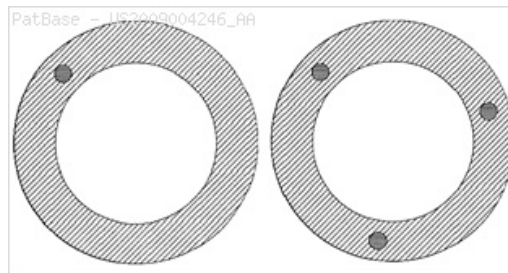
Assignee(s): MORENO JUAN ; INGURAN LLC22575 STATE HWY 6 SOUTHNAVASOTATX77868US ; STEEN HEIN VAN D ; BEVIER GREGG ; COMPASS BANK ; DOBRINSKY JOHN

Family:

Publication number	Publication date	Application number	Application date
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IL202614 A0	20100630	IL20080202614	20080626
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US2009004246 AA	20090101	US20080147310	20080626
US8962010 BB	20150224	US20080147310	20080626
WO09003125 A1	20081231	WO2008US68403	20080626
WO09003125 A8	20100211	WO2008US68403	20080626

Probable Assignee: ALLERGAN PHARMACEUTICALS INT LTD**Assignee(s):(std):** ALLERGAN PHARMACEUTICALS INT LTD ; WOOLFSON AARON DAVID ; MALCOLM KARL ; WOOLFSON DAVID AARON ; WARNER CHILCOTT COMPANY LLC ; WARNER CHILCOTT CO INC ; WARNER CHILCOTT CO LLC**Assignee(s):** WARNER CHILCOTT CO ; WARNER CHILCOTT COMPANY INC ; BANK OF AMERICA NA ADMINISTRATIVE AGENT AS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH ADMINISTRATIVE ; CREDIT SUISSE CAYMAN ISLANDS BRANCH ADMINISTRATIVE AGENT AS ; CREDIT SUISSE CAYMAN ISLANDS BRANCH AS ADMINISTRAT**Inventor(s):(std):** WOOLFSON AARON DAVID ; MALCOLM KARL ; WOOLFSON DAVID AARON ; WOOLFSON AARON ; DAVID WOOLFSON AARON ; KARL MALCOLM**Inventor(s):** AARON DAVID WOOLFSON**Agent(s):** AIRD AND BERLIS IP PARTNERSHIP LTD; AIRD AND MCBURNEY LP; O CONNELL MAURA; FRKELLY; CARPINTERO MARIO; REINHOLD COHN AND PARTNERS; DREW AND NAPIER LLC; FITZPATRICK CELLA HARPER AND SCINTO; HOLOWACZ ELIZABETH F**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 SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**International class (IPC 8-9):** A61F6/06 A61K A61K31/00 A61K31/185 A61K38/00 A61K39/00 A61K39/12 A61K39/21 A61K39/395 A61K45/06 A61K47/24 A61K47/34 A61K48/00 A61K9/00 A61M31/00 A61P31/18 C07K14/00 C07K14/005 C07K16/10 (Advanced/Invention); A61K39/00 (Advanced/Non-invention); A61K38/00 A61K39/00 A61K48/00 A61K9/00 (Core/Invention); A61K (Subclass/Invention)**International class (IPC 1-7):** A61K9/00**CPC:** A61K9/0036 A61K31/00 A61K39/21 A61K2039/541 C07K14/005 C07K16/1063 C12N2740/16034 C12N2740/16122 A61K39/12 A61K31/185 A61K39/395 A61K45/06 A61K47/24 A61K47/34 A61M31/002**European class:** A61K31/00 A61K38/08A A61K38/09 A61K38/10D A61K38/11 A61K38/16A A61K38/18B A61K38/19B A61K38/20 A61K38/21 A61K38/22 A61K38/22A A61K38/22E A61K38/22F A61K38/22G A61K38/23 A61K38/26 A61K38/27 A61K38/28 A61K38/29 A61K38/31 A61K38/33 A61K38/34 A61K38/35 A61K38/36 A61K39/21 A61K9/00M8B C07K14/005 C07K14/16D C07K16/10K1D K61K39/54A M12N740/16034 M12N740/16122**US class:** 424/430 424/430P 424/433[Classification Explorer](#)**Cited documents:** WO9804220 A1, WO9804220 A1, WO05004837 A1, WO0170154 A1, WO0170154, WO0113780 A2, WO0113780, US6436428 BA, US6436428, US6264973 BA, US6126958 A, US6126958 A, US5972372 A, US5972372 A, US5855906 A, US5855906 A, US3993072 A, US2962023 A, US2007043332 AA, CN1822815 A, CN1578675 A, CN1198091 A,**Forward Citations:** WO18202574, WO17165624, WO16065096, WO15092760, WO14123880, WO14122563, WO13064745, WO12170578, WO12066000, WO12065998, WO12065073, WO12065073, WO12024461, WO12024461, US9987364, US9937335, US9931349, US9775905, US9642795, US9603932, US9586035, US9561353, US9427400, US9393311, US9301920, US9289382, US9248136, US9226894, US9180091, US9114146, US9114145, US9078813, US9017312, US9012434, US9006222, US8993549, US8993548, US8987238, US8987237, US8980304, US8974813, US8933059, US8801694, US8709482, US8628798, US8580294, US8557281, US8524254, US8491934, US8460707, US8361273, US8361272, US8182464, US2017224823, US2014296834, US2011236462, US2011091488, US2011060309, US2010317745, US2010152704, US2010003297, US2009324692, US2009291120, US2009149833, US2008160065, US2007202151, US10258630, US10206932, US10137078, US10137031, US10105445, US10052386, JP5887424, JP2015506933, ITMI20132153, EP3209251, EP2799042, EP2799042, EP2640354, CN105209012, CN105209012, CN104271084, CN104271084, CN103298519, CN103298519,**Abstract:**

An intravaginal drug delivery device comprises a device body comprising a hydrophobic carrier material having at least one channel defining at least one opening to the exterior of said device body, said at least one channel being adapted to receive at least one drug-containing insert; at least one drug-containing insert positioned in said at least one channel, said drug-containing insert capable of releasing a pharmaceutically effective amount of at least one drug suitable for intravaginal administration and containing about 1 percent to about 70 percent of at least one water-soluble release enhancer, both the drug and the water-soluble release enhancer dispersed in an insert carrier material; wherein said hydrophobic carrier material and said insert carrier material may be the same or different; and wherein said at least one drug-containing insert is exposed on said exterior of said device body when said intravaginal drug delivery device is in use.



5) Family number: 29021098 (WO03070216A1)

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Title: SYSTEM FOR TRANSVAGINAL DRUG DELIVERY

Priority: WO2002IB00528 20020224

Family:

Publication number	Publication date	Application number	Application date
AU2002233588 AA	20030909	AU20020233588	20020224
AU2002233588 BB	20080131	AU20020233588	20020224
CA2477109 AA	20040823	CA20022477109	20020224
CA2477109 C	20101116	CA20022477109	20020224
EP1478337 A1	20041124	EP20020700512	20020224
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IN236562 B	20091120	IN2004DN02527	20040830
JP2005535563 T2	20051124	JP20030569176T	20020224
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WO03070216 A1	20030828	WO2002IB00528	20020224

Probable Assignee: HI GIENIC LTD

Assignee(s):(std): YISSUM RES DEV COMPANYOF THE H ; HI GIENIC INTRA VAGINAL TECHNOLOGIES LTD ; HI GIENIC LTD ; BENITA SIMON ; HI GIENIC INTRA VAGINAL TECHNO ; KLUGER RAM ; YISSUM RES DEV CO ; STERN THEODOR ; YISSUM RES DEV COMPANYOF H

Assignee(s): YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW ; YISSUM RESEARCH DEVELOPMENT CO OF HEBREW UNIV OF J ; YISSUM RESEARCH DEVELOPMENT COMPANYOF HEBREW UNIV ; RAM KLUGER ; SHIMON BENITA ; HI GIENIC INTRA VAGINAL TECHNOLOGIES LTD ; HI GIENIC LTD ; YISSUM RESEARCH DEVELOPMENT CO OF HEBREW UNIV JERUSALEM ; YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREWU ; YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSALEM ; YISSUM RESEARCH DEVELOPMENT CO OF HEBREW UNIV OF JERUSALEM ; YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREWUNIVERSITY OF JERUSALEM ; YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSALEM ; YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREWUNIVERSITY OF JERUSALEM ; YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREWUNIVERSITY OF JERUSALEM ; YISSUM RESEARCH DEVELOPMENT CO OF HEBREW UNIV OF JERUSALEM LTD ; THEODOR STERN ; YISSUM RESEARCH DEVELOPMENT COMPANYOF HEBREW UNIV OF JERUSALEM ; YISSUM RESEARCH DEVELOPMENT CO OF HEBREW ; YISSUM RESEARCH DEVELOPMENT CO OF HEBREWUNIVERSITY OF JERUSALEM ; YISSUM RESEARCH DEVELOPMENT CO OF HEBREWUNIVERSITY OF JERUSALEM ; YISSUM RESEARCH DEVELOPMENT COMPANYOF THE HEBREW U ; YISSUM RESEARCH DEVELOPMENT COMPANYOF THE HEBREW UNIVERSITY OF JERUSALEM

Inventor(s):(std): STERN THEODOR ; KLUGER RAM ; BENITA SIMON

Inventor(s): SHIMON BENITA ; SIMON BENITA ; RAM KLUGER ; THEODOR STERN

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; OGILVY RENAULT LLP SENCRL SRL; REINHOLD COHN AND PARTNERS

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 ME MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

International class (IPC 8-9): A61F13/20 A61K31/137 A61K31/167 A61K31/19 A61K31/192 A61K31/277 A61K31/405 A61K31/4152 A61K31/4422 A61K31/445 A61K31/5415 A61K31/554 A61K31/565 A61K31/57 A61K31/616 A61K45/00 A61K9/00 A61K9/02 A61L15/44 A61M31/00 (Advanced/Invention); A61F13/20 A61K31/185 A61K45/00 A61K9/00 A61K9/02 A61L15/16 A61M31/00 (Core/Invention)

International class (IPC 1-7): A61F13/20 A61K31/19 A61K31/192 A61K45/00 A61K9/00 A61K9/02 A61L15/44 A61M A61M31/00

CPC: A61M31/002 A61M2210/1475 A61F13/2051 A61K9/0034 A61K9/0036 A61L15/44 A61L2300/402 A61L2300/41 A61L2300/43 A61L2300/432

European class: A61F13/20C A61K9/00M8 A61L15/44 K61K9/00M8B K61L300/402 K61L300/410 K61L300/430 K61L300/432

JP class F-Term: 3B200 3B200/CA17 4C066 4C066/AA04 4C066/BB05 4C066/CC01 4C066/GG03 4C066/HH30 4C076 4C076/AA02 4C076/BB30 4C076/CC05 4C076/DD09 4C076/DD38 4C076/EE23 4C076/FF33 4C076/FF57 4C079 4C084 4C084/AA17 4C084/MA05 4C084/MA31 4C084/MA56 4C084/NA10 4C084/ZA36 4C084/ZA69 4C084/ZA94 4C084/ZB11 4C084/ZC10 4C086 4C086/AA01 4C086/BC14 4C086/BC21 4C086/BC23 4C086/BC26 4C086/BC36 4C086/BC89 4C086/BC92 4C086/CA01 4C086/CB03 4C086/DA09 4C086/DA10 4C086/DA17 4C086/GA08 4C086/GA10 4C086/MA01 4C086/MA04 4C086/MA34 4C086/MA55 4C086/NA10 4C086/ZA20 4C086/ZA39 4C086/ZA94 4C086/ZB11 4C086/ZC10 4C086/ZC41 4C206 4C206/AA01 4C206/DA22 4C206/DA24 4C206/MA01 4C206/MA05 4C206/MA51 4C206/MA76 4C206/NA10 4C206/ZB11

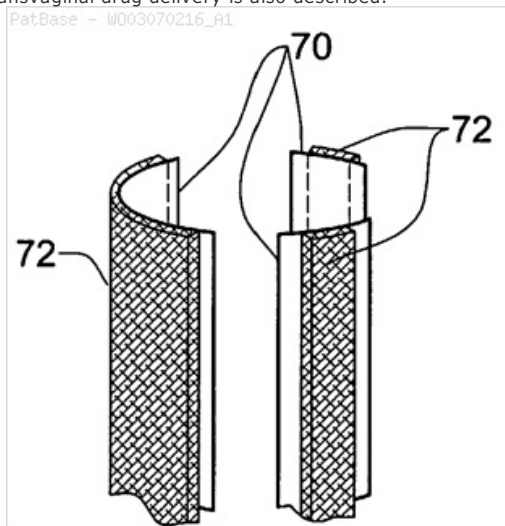
JP class F-Index: A61F13/20/227 A61F13/20/231 A61F13/20/240 A61F13/20/327 A61F13/20/330 A61F13/20/338 A61K31/137 A61K31/167 A61K31/192 A61K31/277 A61K31/405 A61K31/4152 A61K31/4422 A61K31/445 A61K31/5415 A61K31/554 A61K31/565 A61K31/57 A61K31/616 A61K45/00 A61K9/02 A61M31/00

Cited documents: WO0217981 A1, WO0180937 A1, US6197327 BA, US5201326 A, US4340055 A, JP7000450 A2, JP3094218 U, JP2005536237 T2, JP2003531182 T2,

Forward Citations: EP2189153,

Abstract:

A transvaginal drug delivery system comprising: (a) a deposition comprising an effective amount of said drug and, optionally, a wetting agent; and (b) a polymeric support on which said deposition is deposited. Also disclosed is a catamenial tampon for insertion in a human vagina comprising: (a) an inner core comprising an absorbent material; (b) an outer layer comprising a liquid-permeable material; and (c) a delivery system according to the invention. A method of transvaginal drug delivery is also described.



6) Family number: 34385125 (US2007197957A)

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Title: Implantable sensors, implantable pumps and anti-scarring drug combinations

Priority: US20050723638P 20051003 US20060542101 20061003

Family:	Publication number	Publication date	Application number	Application date
	US2007197957 AA	20070823	US20060542101	20061003
	WO07041584 A2	20070412	WO2006US38632	20061003
	WO07041584 A3	20071129	WO2006US38632	20061003

Probable Assignee: COMBINATORX INC

Assignee(s):(std): ANGIOTECH INT AG ; AUSPITZ BENJAMIN A ; BORISY ALEXIS ; COMBINATORX INC ; GRAU DANIEL S ; GRAVETT DAVID M ; HUNTER WILLIAM L ; SERBEDZIJA GEORGE N ; NICHOLS M JAMES ; TOLEIKIS PHILIP M ; KEITH CURTIS T ; JOST PRICE EDWARD ROYDON ; NICHOLS M J ; JOST PRICE EDWARD R

Assignee(s): NICHOLS M

Inventor(s):(std): AUSPITZ BENJAMIN A ; BORISY ALEXIS ; GRAU DANIEL S ; GRAVETT DAVID M ; HUNTER WILLIAM L ; JOST PRICE EDWARD R ; JOST PRICE EDWARD ROYDON ; KEITH CURTIS T ; NICHOLS M J ; NICHOLS M JAMES ; SERBEDZIJA GEORGE N ; TOLEIKIS PHILIP M

Inventor(s): NICHOLS M

Agent(s): CLARK AND ELBING 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 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 MG MK ML MN MR 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

International class (IPC 8-9): A61K31/00 A61K9/22 A61M31/00 (Advanced/Invention)

CPC: A61K9/0024 A61L31/10 A61L31/16 A61L2300/602 A61M5/14276 A61M31/002

European class: A61L31/10 A61L31/16 K61K9/00M5D K61L300/602 K61M31/00D K61M5/142P10

US class: 604/65 604/65P

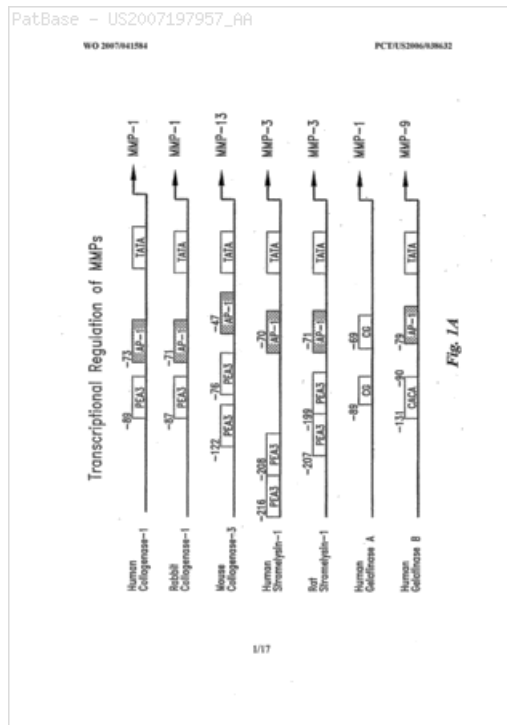
Classification Explorer

Cited documents: US2005186245 AA,

Forward Citations: WO14143452, WO13188534, WO13025572, WO11068522, WO09158409, WO09158409, WO09100394, WO09100394, WO09038768, WO09006602, US9981070, US9980661, US9949677, US9821139, US9731093, US9694113, US9668686, US9511147, US9435896, US9381301, US9033149, US8998882, US8937040, US8906866, US8889826, US8491927, US8328792, US8322046, US7677107, US2018001018, US2017128654, US2015080847, US2015034834, US2014296830, US2014216127, US2013317376, US2013289372, US2011129521, US2011004148, US2011004084, US2009275924, US2008207874, US2007087059, US10245178, US10206813, US10149961, US10117614, US10058688, US10058519, US10010670, EP2954908, EP2954908,

Abstract:

Pumps and sensors for contact with tissue are used in combination with an anti-scarring agent or a composition that comprises an anti-scarring agent to inhibit scarring that may otherwise occur when the pumps and sensors are implanted within an animal.



7) Family number: 28996187 (US2005245902A)

© PatBase

Title: SUBSTANCE DELIVERY DEVICE

Priority: NZ20020517094 20020208 WO2003NZ00019 20030210

Family:

Publication number	Publication date	Application number	Application date
AU2003208680 AA	20030902	AU20030208680	20030210
EP1474068 A1	20041110	EP20030707266	20030210
NZ517094 A	20050324	NZ20020517094	20020208
US2005245902 AA	20051103	US20030504237	20030210
WO03065923 A1	20030814	WO2003NZ00019	20030210

Probable Assignee: ADVANCED ANIMAL TECHNOLOGY LTD

Assignee(s):(std): ADVANCED ANIMAL TECHNOLOGY LTD ; CORNISH BRIAN ; OAKLEY ANDREW P ; OAKLEY ANDREW PHILIP

Assignee(s): ADVANCED ANIMAL TECHNOLOGY LIMITED

Inventor(s):(std): CORNISH BRIAN ; OAKLEY ANDREW PHILIP ; OAKLEY ANDREW P

Inventor(s): OAKLEY ANDREW ; BRIAN CORNISH ; ANDREW PHILIP OAKLEY

Agent(s): MIDDLETONS; K AND L GATES; ABELMAN FRAYNE AND SCHWAB

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE 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 NE NL NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8-9): A61D7/00 (Advanced/Invention); A61M31/00 (Advanced/Non-invention); A61D7/00 (Core/Invention); A61M31/00 (Core/Non-invention)

International class (IPC 1-7): A61D19/00 A61D7/00 A61K9/22 A61M31/00

CPC: A61D7/00 A61M31/00

European class: A61D7/00 K61M31/00

US class: 604/890.1

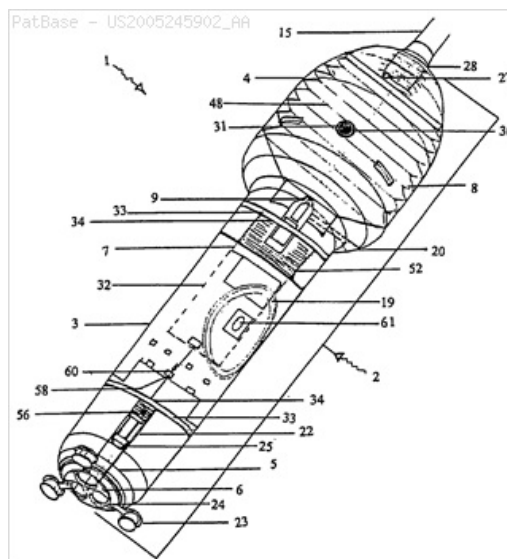
[Classification Explorer](#)

Cited documents: WO9629025 A1, US4927632 A, EP0297725 B1,

Forward Citations: WO17095821, WO13184922, WO13184922, WO11125073, WO09058004, US9987364, US9931349, US9888990, US9884017, US9849142, US9812179, US9795564, US9713643, US9682021, US9675700, US9668972, US9662298, US9636405, US9622947, US9572775, US9549898, US9539208, US9492412, US9439857, US9433195, US9320705, US9301920, US9289382, US9265725, US9248136, US9211259, US9180091, US9167813, US9161916, US9101662, US9072667, US9050253, US9033939, US9012434, US9006222, US8992896, US8987238, US8987237, US8974813, US8945516, US8933059, US8900554, US8900553, US8871184, US8865139, US8846649, US8846648, US8840869, US8795693, US8795635, US8760906, US8741265, US8722021, US8709482, US8709385, US8703105, US8636982, US8633178, US8628798, US8618081, US8557281, US8524254, US8518378, US8518376, US8512718, US8491934, US8486376, US8486375, US8486374, US8460707, US8435498, US8362091, US8361273, US8361272, US8343945, US8119150, US8119109, US8119106, US8114385, US2014081216, US10265404, US10258630, US10238746, US10219883, US10213512, US10213384, US10206932, US10188082, US10137200,

Abstract:

A substance delivery device capable of insertion into a body cavity of an animal, with the delivery device including a body capable of housing a delivery apparatus capable of actively being controlled to autonomously deliver at least one substance into a body cavity of an animal, with the delivery apparatus including dedicated pressure systems to deliver the at least one substance from independent reservoirs via at least one associated outlet, with the at least one substance ranging in form from substantially fluid to substantially solid, with the device also including a programmable control device capable of initiating and regulating delivery of the at least one substance in accordance with a preferred delivery regime, and with the body further including a tail portion adapted to receive retention apparatus external to the animal and capable of effecting retention of the substance delivery device within the body cavity of an animal.



8) Family number: 4509188 (US5002540A)

© PatBase

Title: INTRAVAGINAL DEVICE AND METHOD FOR DELIVERING A MEDICAMENT

Priority: US19890355407 19890522

Family:	Publication number	Publication date	Application number	Application date
	US5002540 A	19910326	US19890355407	19890522

Probable Assignee: KIRSCHBAUM WARREN

Assignee(s):(std): KIRSCHBAUM WARREN

Assignee(s): KIRSCHBAUM WARREN DBA MEDICAL MARKETING ASSOCIATES ; BIOMEDICAL DEVICE CONSULTANTS INC

Inventor(s):(std): WEINBERG STEVEN L ; KIRSCHBAUM WARREN ; BRODMAN MICHAEL L

International class (IPC 8-9): A61F6/06 A61K9/00 A61M31/00 (Advanced/Invention); A61F6/00 A61K9/00 A61M31/00 (Core/Invention)

International class (IPC 1-7): A61F6/06 A61M31/00

CPC: A61K9/0036 A61F6/06 A61M31/00 A61M2210/1475

European class: A61F6/06 A61K9/00M8B A61M31/00

US class: 128/834 424/433 424/457 604/285 604/515 604/55

[Classification Explorer](#)

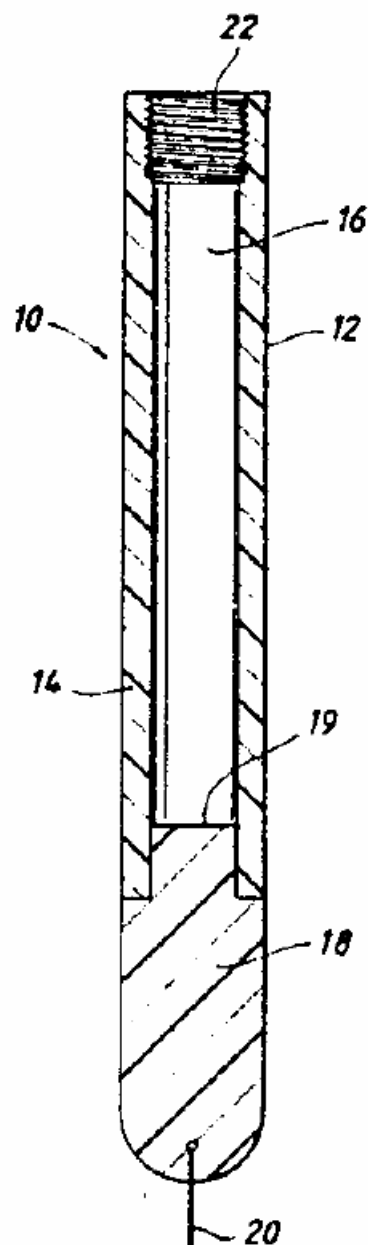
Cited documents: US4915949 A, US4876093 A, US4837111 A, US4786500 A, US4699823 A, US4629449 A, US4627851 A, US4589880 A, US4578075 A, US4526578 A, US4479795 A, US4475916 A, US4455144 A, US4381780 A, US4369773 A, US4355722 A, US4327725 A, US4312347 A, US4309996 A, US4286587 A, US4235236 A, US4220152 A, US4219016 A, US4203440 A, US4198965 A, US4177256 A, US4160452 A, US3995633 A, US3993073 A, US3975350 A, US3946734 A, US3902493 A, US3545439 A, US2020107 A,

Forward Citations: WO9400168, WO09094573, WO09094573, USD685910, US9999720, US9987364, US9884017, US9849142, US9812179, US9801660, US9795564, US9744341, US9717526, US9713643, US9682021, US9675700, US9668972, US9662298, US9636405, US9622947, US9572775, US9549898, US9539208, US9492412, US9439857, US9320705, US9297083, US9265725, US9211259, US9204895, US9167813, US9161916, US9101662, US9072667, US9050253, US9017310, US9014799, US9005108, US8992896, US8974813, US8945516, US8900554, US8900553, US8882748, US8871184, US8865139, US8840869, US8795693, US8795635, US8760906, US8741265, US8722021, US8709482, US8709385, US8703105, US8636982, US8628798, US8618081, US8557281, US8524254, US8518378, US8518376, US8512718, US8491934, US8486376, US8486375, US8486374, US8460707, US8435498, US8388996, US8361273, US8361272, US8343945, US8119150, US8119109, US8119106, US8114385, US7993667, US7919453, US7883718, US7838024, US7833545, US7829112, US7744556, US7708726, US7527614, US7118550, US7083569, US6939569, US6796973, US6758840, US6464670, US6264638, US6241846, US5327897, US5299581, US5247941, US2015105751, US2011091488, US2011087195, US2011087192, US2011087155, US2010317745, US2009324692, US2009317338, US2009291120, US2009274654, US2009060982, US2008292560, US2008286339, US2008286322, US2008248017, US2008160065, US2008069779, US2007196433, US2007141118, US2007135796, US2006269485, US2006247571, US2006218690, US2006217652, US2006216334, US2006213919, US2006213918, US2005237882, US2005186147, US2005075407, US2005010160, US2003040727, US10265404, US10238746, US10213512, US10213384,

Abstract:

A device for inserting into the vagina of a patient for delivery of a medicament in the vagina. The walls of the tubular member comprising the device are comprised of water-swellaable materials having a higher porosity at one end than the other, the relatively low porosity end being positioned distally in the vagina to the relatively high porosity end. The medicament is contained within a reservoir in the tubular member and delivered to the vagina through the pores in the walls of the tubular member at different rates depending upon the porosity. Also provided is a method of delivering a medicament to the vagina of a patient.

PatBase - US5002540_A



9) Family number: 11019240 (US6352524B)

© PatBase

Title: Active delivery device with reduced passive delivery
Priority: NZ19970314175 19970203 NZ19970314572 19970410 WO1998NZ00011 19980202
Family:

Publication number	Publication date	Application number	Application date
AU199857838 A1	19980825	AU19980057838	19980202
NZ314175 A	19991028	NZ19970314175	19970203
US6352524 BA	20020305	US19980207514	19981209
WO9833452 A1	19980806	WO1998NZ00011	19980202
ZA9800805 A	19980805	ZA19980000805	19980130

Probable Assignee: DEC RESEARCH

Assignee(s):(std): DEC INT NZ LTD ; DEC INTERNATIONAL NZ LIMITED ; DEC RESEARCH SUBSTITUTED UNDER ; THOMPSON WILLIAM STANLEY ; INTERAG ; BUNT CRAIG ROBERT

Assignee(s): DEC INT ; DEC RESEARCH SUBSTITUTED UNDER S24 1 FROM DEC M ; DEC NZ ; DEC RESEARCH

Inventor(s):(std): BUNT CRAIG ROBERT ; THOMPSON WILLIAM STANLEY ; RATHBONE MICHAEL JOHN ; BURGGRAAF SHANE

Inventor(s): CRAIG ROBERT BUNT ; WILLIAM STANLEY THOMPSON

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HU ID IE IL IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

International class (IPC 8-9): A61D17/00 A61D7/00 A61M31/00 (Advanced/Invention);
A61D17/00 A61D7/00 A61M31/00 (Core/Invention);
A61B A61D A61F A61M (Subclass/Invention)

International class (IPC 1-7): A61B A61D A61D17/00 A61D19/00 A61D7/00 A61F A61F6/08 A61M A61M31/00

CPC: A61M31/002

European class: A61M31/00D

US class: 123/130 604/285 606/119

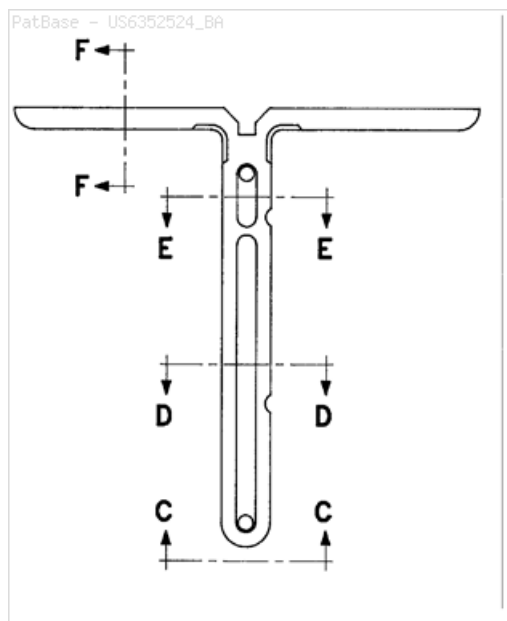
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Cited documents: WO9853758 A1, WO9740776 A1, WO9629025 A1, WO9604953 A1, WO9401165 A1, WO9002580 A1, US6186997 BA, US5951538 A, US5527288 A, US5492534 A, US5354264 A, US5318557 A, US5156591 A, US5090963 A, US5062834 A, US4969874 A, US4678463 A, US4582052 A, US3993057 A, NZ207341 A, GB2154875 A1, EP0385915 A2,

Forward Citations: WO03065924, WO0112101, WO0076421, WO0009037, WO0009037, USD829390, US9999720, US9801660, US9744341, US9717526, US9713475, US9687245, US9579104, US9555225, US9297083, US9289215, US9204895, US9198665, US9050095, US9017310, US9014799, US9011480, US9005108, US8882748, US8864790, US8801747, US8795321, US8795320, US8777979, US8777978, US8328860, US7691130, US7531002, US7083590, US2011087195, US2011087192, US2011087155, US2007191833, US2006270640, US2005234555, US09999720, GB2361711, ES2169974, AU775581, AU755686,

Abstract:

A delivery device having a reservoir of variable volume having an outlet through which an included vehicle can be expressed in a liquid form as the volume of the reservoir is actively reduced. There is a tube providing a conduit to the outlet from the reservoir of such length and cross-section as to favor active release over passive release which has the effect of enabling a more positive control of the dispensing of the vehicle. Such a device has diverse applications.



10) Family number: 43550270 (US2011045076A)

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Title: LINEAR ORDER RELEASE POLYMER

Priority: US20080023716P 20080125 US20090864168 20090123 WO2009US31877 20090123

Family:

Publication number	Publication date	Application number	Application date
AU2009206328 AA	20090730	AU20090206328	20090123
CN101977651 A	20110216	CN200980110024	20090123
EP2244782 A2	20101103	EP20090703544	20090123
EP2244782 A4	20110914	EP20090703544	20090123
KR20100120665 A	20101116	KR20107018550	20090123
US2011045076 AA	20110224	US20090864168	20090123
WO09094573 A2	20090730	WO2009US31877	20090123
WO09094573 A3	20091029	WO2009US31877	20090123
WO09094573 A9	20100916	WO2009US31877	20090123
ZA201005849 A	20110525	ZA20100005849	20100816

Probable Assignee: OF UTAH RESEARCH FOUNDATION UNIV

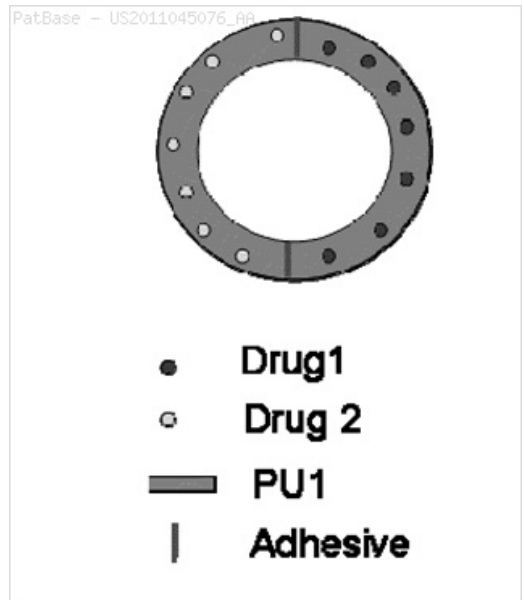
Assignee(s):(std): GUPTA KAVITA ; KISER PATRICK F ; UNIV OF UTAH RESEARCH FOUNDATION ; UNIV UTAH RES FOUND
Assignee(s): OF UTAH RESEARCH FOUNDATION UNIV ; OF UTAH UNIV ; THE UNIVERSITY OF UTAH RESEARCH FOUNDATION
Inventor(s):(std): GUPTA KAVITA ; KAVITA GUPTA ; KISER PATRICK F
Inventor(s): PATRICK F KISER
Agent(s): SPRUSON AND FERGUSON; SNODIN MICHAEL D; FOLEY AND LARDNER LLP; MEARA JOSEPH P
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 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
International class (IPC 8-9): A61F A61F6/08 A61K31/444 A61K31/496 A61K31/513 A61K31/57 A61K31/675 A61K9/00 A61K9/14 A61M A61M31/00 A61P31/16 A61P35/00 A61P5/30 C08G C08G18/48 C08G18/66 C08G18/75 (Advanced/Invention); A61F6/08 A61M31/00 C08G18/48 (Advanced/Non-invention); A61F6/00 A61M31/00 C08G18/00 (Core/Invention)
CPC: A61K9/0036 A61M31/002 A61M2210/1475 C08G18/4854 C08G18/6674 C08G18/758 A61F6/08
European class: A61F6/08 A61K9/00M8B A61M31/00D C08G18/48H C08G18/66P2A C08G18/75D K61M210/14E K61M216/20
US class: 424/486 424/486P 514/178 514/178S 514/253.04 514/253.040S 514/274 514/274S 514/334 514/334S 514/81 514/81S

[Classification Explorer](#)

Cited documents: WO9500199 A1, WO08089488 A2, WO08047100 A1, WO08007098 A2, WO08007046 A1, WO08003932 A1, WO06048639 A1, WO06013335 A1, WO04029125 A1, US5299581 A, US5002540, US4931288 A, US4894238 A, US4629449 A, US4493699 A, US3545439 A, US2011039798 AA, EP0385030 A2,

Forward Citations: WO16071466, WO14159169, WO13013172, WO12066000, WO12065998, WO12024605, WO12024605, US9987364, US9872829, US9642795, US9603932, US9427400, US9393311, US9226894, US9132081, US9078813, US8974813, US8709482, US8628798, US8580294, US8557281, US8524254, US8491934, US8460707, US8361273, US8361272, US2016120800, US2015136143, US2014209100, US2014045792, US2013220337, US2011091488, US2010317745, US2009324692, US2009291120, US2008160065, US10137031, US10105445, RU2607179, JP6254248, JP6170044, JP6068454, JP2018048198, JP2017101035, JP2014520896, JP2014520896, JP2014520111, EP3017809, EP2734262, EP2734262, EP2734262, EP2640354, EP2458266, EP2458266, CN104558491, CN103796708, CN103327985, AU2012283837,

Abstract:
Intravaginal drug delivery devices, including intravaginal rings, are provided herein. The devices comprise a polyether urethane composition and a pharmaceutically effective amount of at least one vaginally administrable drug homogeneously distributed throughout the polyether urethane. The devices are capable of exhibiting a substantially zero order release profile of drug over extended periods of time. Also disclosed are methods for making the devices and methods of using the devices to prevent or treat a biological condition.



11) Family number: 13195282 (US5398698A) © PatBase

Title: Process for preparing an intravaginal application system
Priority: DE19883838815 19881117 EP19890121066 19891114 EP19890121066 19891114
DE19890121066 19891114 DE19895003286 19891114 US19890436726 19891115
CA19892003104 19891116 US19940365923 19941229

Publication number	Publication date	Application number	Application date
AT84406 E	19930115	AT19890121066T	19891114
CA2003104 AA	19900517	CA19892003104	19891116
CA2003104 C	20000201	CA19892003104	19891116
DE3838815 A1	19900523	DE19883838815	19881117
DE58903286 D1	19930225	DE19895003286	19891114
DK574689 A	19900518	DK19890005746	19891116

DK574689 A0	19891116	DK19890005746	19891116
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EP0369400 A3	19910109	EP19890121066	19891114
EP0369400 B1	19930113	EP19890121066	19891114
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US5398698 A	19950321	US19890436726	19891115
US5660187 A	19970826	US19940365923	19941229
ZA8908747 A	19900829	ZA19890008747	19891116

Probable Assignee: HOECHST AG
Assignee(s):(std): HOECHST AG
Assignee(s): HOECHST AKTIENGESELLSCHAFT ; HOECHST AKTIENGESELLSHAFT ; HORNYKIEWYTSCH THEOPHIL ; HILLER DIETRICH
Inventor(s):(std): HILLER DIETRICH ; HILLER DIETRICH DR ; HORNYKIEWYTSCH THEOPHIL ; HORNYKIEWYTSCH THEOPHIL DR ; KIEWYTSCH THEOPHIL HORNY ; THEOPHIL HORNYKIEWYTSCH ; DIETRICH HILLER
Inventor(s): THEOPHIL HORNY KIEWYTSCH ; HILLER DR DIETRICH W 6200 WIESBADEN DE ; HORNYKIEWYTSCH DR THEOPHIL W 6230 FRANKFURT AM MAI
Agent(s): BERESKIN AND PARR
Designated states: AT BE CH DE ES FR GB IT LI NL
International class (IPC 8-9): A61D7/00 A61K9/00 A61M31/00 (Advanced/Invention); A61D7/00 (Core/Invention)
International class (IPC 1-7): A61D7/00 A61F6/06 A61J3/08 A61K27/12 A61K31/57 A61K37/24 A61K9/00 A61M31/00 A61M31/00 B01J4/02 B32B25/20 C08J3/24 C08K3/36 C08K5/05 C08K5/10 C08L83/04
CPC: A61K9/0036 A61M31/00
European class: A61K9/00M8B A61M31/00
US class: 128/830 128/832 128/833 128/839 264/313 264/326 604/515 604/890.1

[Classification Explorer](#)

Cited documents: US4623593 A, US4585451 A, US4526578 A, US4447373 A, US4331651 A, US4311543 A, US4292965 A, US4043339 A, US4016251 A, US4012497 A, US3995634 A, US3995633 A, US3993073 A, US3993072 A, US3920805 A, US3805300 A, NZ217370 A, GB2168257 A1, FR2603191 A1, FR2285895 A1, FR2162628 A1, EP0086530 A1, EP0013949 A2, DE3728671 A1,

Forward Citations: WO9740776, WO12156561, WO09099586, US9427400, US8580294, US8580293, US7959990, US6796973, US6663608, US6423039, US6394094, US6264638, US6241846, US6227047, US2009202612, US2006244882, US10137031, JP6124411, JP5507467, JP2014167001, JP2011510984, GB2328161, GB2328161, EP2359807, EP2359807, EP2249757, EP2249757, EP2249757,

Abstract:

In the process for preparing an intravaginal application system for the controlled release of substances, a milled sheet of silicone rubber containing the substances is inserted into one mold component of a split mold. The core of the system is arranged on this milled sheet and is covered with a second milled sheet of the same type. The mold is then closed and the milled sheets are vulcanized at a maximum temperature of 120 DEG C.

12) Family number: 3985413 (GB1430533A)

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Title:	DRUG SUPPORTING ANCHOR			
Priority:	GB19740000271 19740103			
Family:	Publication number	Publication date	Application number	Application date
	GB1430533 A	19760331	GB19740000271	19740103

Probable Assignee: ABBOTT LABORATORIES
Assignee(s):(std): ABBOTT LAB
Assignee(s): ABBOTT LABORATORIES
International class (IPC 8-9): A61D7/00 A61F6/08 A61M31/00 (Advanced/Invention); A61D7/00 A61F6/00 A61M31/00 (Core/Invention)
International class (IPC 1-7): A61F5/46 A61M31/00
CPC: A61D7/00 A61F6/08 A61M31/002
European class: A61D7/00 A61F6/08 A61M31/00D

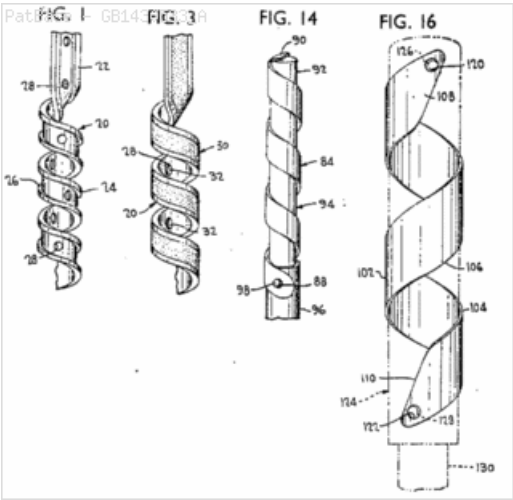
[Classification Explorer](#)

Forward Citations: WO09109966, WO07094004, US9333329, EP1986569, EP1986569, EP0687168, EP0687168,

Abstract:

1430533 Administering medicines ABBOT LABORATORIES 3 Jan 1974 00271/74 Heading A5R A drug supporting anchor 20 for insertion and retention in body cavities comprises a helical elongated member 24 with a drug supporting surface comprising a longitudinal channel 26 in its outer surface retaining a strip 30 of slow release drug material by means of projections 32 on the strip engaging spaced apertures 28 in the channel. The elongated member may alternatively comprise a solid cylindrical rod or hollow tube formed into a helix (Figs. 7, 12-not shown), or a double helix (Fig. 11- not shown). Alternatively, the elongated member may comprise a solid cylindrical rod with raised helical lands defining the drug supporting surface (Figs. 4, 5-not shown) to which a drug strip may be secured. In Fig. 14 an anchor 84 consists of a flat strip of flexible material, which may be of stainless or high carbon steel, wound into a helix and supported on an insertion rod 94, engaging the distal end 92 thereof by means of a shaped end 90 and the proximal end thereof by means of a pin 98 on the rod entering an aperture 88 in the strip, the rod being extendable to longitudinally stretch and reduce the diameter of the anchor to facilitate insertion in a body cavity. In Fig. 16 the anchor consists of a flat strip 102 of resilient flexible material having triangular end portions 108, 110 wound in helical formation on an insertion rod 124 and releasably secured thereto by retractable pins 126, 128 on the rod engaging apertures 120, 122 in the strip. The anchor may be formed wfrom plastics

such as polyethylene, polypropylene, polystyrene, ethylene/propylene copolymers, transparent acrylic resins, polycarbonates or linear polyamides or from stainless or high carbon steel. The slow release drug may alternatively be directly applied to the drug supporting surface by dipping the anchor in a solution of the drug and a silicone rubber slow release carrier dissolved in cyclohexane and subsequently evaporating the solvent (Fig. 9-not shown).



13) Family number: 87438 (US3545439A)

© PatBase

Title: MEDICATED DEVICES AND METHODS

Priority: US19680696011 19680104

Family:

Publication number	Publication date	Application number	Application date
BE726454 A	19690703		19690103
BR6905338 A0	19730307	BR19690205338	19690103
CA985173 A1	19760309	CA19680036202	19681126
CH554172 A	19740930	CH19680018892	19681218
DE1900196 A1	19690731	DE19691900196	19690103
ES360946 A1	19700801	ES19680360946	19681130
FR1604934 A	19710515		19681223
GB1252021 A	19711103		19690102
GT196811877 A	19700529	GT19680011877	19681205
JP51025677 B4	19760802	JP19680092402	19681218
MY7500059 A	19751231	MY19750000059	19751230
NL6818655 A	19690708	NL19680018655	19681224
SE369375 B	19740826	SE19680018010	19681230
US3545439 A	19701208	US19680696011	19680104

Probable Assignee: UPJOHN CO

Assignee(s):(std): PPJOHN CO ; PPJOHN COMPANY ; UPJOHN CO

Assignee(s): UPJOHN CO THE ; UPJOHN CO US ; UPJOHN COMPANY THE ; THE PPJOHN COMPANY ; THE UPJOHN CO ; THE UPJOHN COMPANY ; DUNCAN GORDON W

Inventor(s):(std): DUNCAN G ; DUNCAN GORDON W ; WALTER DUNCAN GORDON

Inventor(s): GORDON W DUNCAN ; DUNCAN G US

International class (IPC 8-9): A61D7/00 A61F6/06 A61K31/557 A61K9/00 A61M31/00 C07C405/00 (Advanced/Invention); A61D7/00 A61F6/00 A61K31/557 A61K9/00 A61M31/00 C07C405/00 (Core/Invention)

International class (IPC 1-7): A61D7/00 A61F5/46 A61K17/06 A61K27/12 A61K31/565 A61K47/00 A61K5/47 A61K9/00 A61K9/02 A61K9/52 A61M31/00 A61M7/00

CPC: A61D7/00 A61F6/08 A61K9/0036 A61K31/557 A61M31/002 C07C405/00

European class: A61D7/00 A61F6/08 A61K31/557 A61K9/00M8B A61M31/00D C07C405/00

US class: 128/260 128/832 424/432 604/515 604/93.01

JP class F-Term: 4C098 4C098/AA06 4C098/DD13 4C098/DD17 4C098/DD20 4C098/DD22 4C098/DD23 4C098/EE21 4C098/EE23

JP class F-Index: A61F5/46 A61F6/08

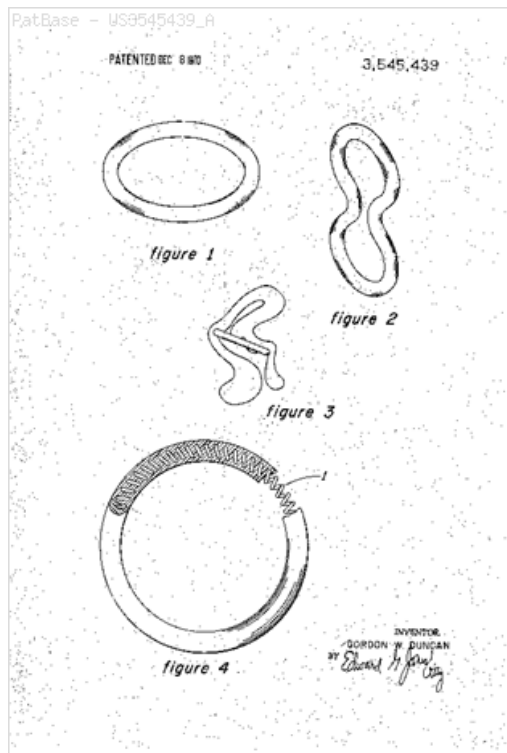
[Classification Explorer](#)

Forward Citations: WO9740776, WO9619196, WO9509641, WO9500118, WO16054002, WO15055789, WO14167510, WO13140372, WO09099586, USD619250, US9993424, US9937073, US9750636, US9566267, US9427400, US9421126, US9370574, US9095744, US9084717, US8939948, US8865200, US8858977, US8753667, US8741329, US8715712, US8580294, US8580293, US8506543, US8404272, US8333983, US8323679, US8217219, US7910126, US7883718, US7838024, US7833545, US7829112, US7824383, US7187980, US6825234, US6758840, US6671562, US6663608, US6486207, US6423039, US6361780, US6126958, US6039968, US5972372, US5855906, US5788980, US5422118, US5269321, US5224493, US5181505, US5146931, US5002540, US4985253, US4816257, US4690683, US4629449, US4589880, US4469671, US4402695, US4344431, US4326510, US4310510, US4292965, US4264578, US4264577, US4264576, US4264575, US4250611, US4237885, US4215691, US4191741, US4155991, US4111196, US4102998, US4093490, US4053580, US4043339, US4031886, US4024871, US4018220, US4016251, US4014987, US4012497, US3996933, US3995633, US3992518, US3991760, US3976071, US3973560, US3948263, US3946106, US3924622, US3911911, US3901232, US3892238, US3888975, US3887699, US3880991,

US3854476, US3851648, US3844285, US3814097, US3809076, US3656483, US3645258, US2016016040, US2013324380, US2013078286, US2011236462, US2011212155, US2009274654, US2009202612, US2009081278, US2009060982, US2008286339, US2008286322, US2008248017, US2008199511, US2008051740, US2007254014, US2007196433, US2007191320, US2006280771, US2006270640, US2005148995, US2005042292, US2004265355, US2003093136, US10172869, US10137031, US10004636, LT3455, JP6139408, JP6124411, JP5507467, JP2014167001, JP2013543763, JP2011530379, JP2011510984, JP2004506482, GB2328161, GB2328161, FR2456510, FR2388545, FR2388545, FR2197582, EP3363500, EP2641602, EP2359807, EP2359807, EP2249757, EP2246062, EP2244782, EP2244782, EP1768625, EP1768625, EP1239829, EP1159957, EP0776659, EP0776659, EP0274762, EP0247251, EP0050867, EP0010987, DE3503679, DE2818934, DE2547378, AP111,

Abstract:

1,252,021. Medicated devices. UPJOHN CO. 2 Jan., 1969 [4 Jan., 1968], No. 339/69. Heading A5R. A medicated resilient generally annular device for intravaginal use in female mammals, in which the body of the device comprises a polymeric drug-permeable substance and includes a medicament which may be released into the vagina by diffusion through the body. The medicament may be disposed throughout the body or located in one or more cavities in the body. The polymer may be an organopolysiloxane elastomer and the medicament may include progestational compounds or an estrogenic substance. A coiled steel spring may be encased in the body.



14) Family number: 52867449 (US2014209100A)

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Title: INTRAVAGINAL DEVICES FOR DRUG DELIVERY
Priority: US20110509694P 20110720 US20120655288P 20120604 EP20120815417 20120720
WO2012US47649 20120720 US20120233692 20120720

Family:	Publication number	Publication date	Application number	Application date
	AU2012283837 AA	20130124	AU20120283837	20120720
	AU2012283837 BB	20170427	AU20120283837	20120720
	BR112014001450 A2	20170613	BR20141101450	20120720
	BR112014001450 A2	20170718	BR20141101450	20120720
	CA2842550 AA	20140120	CA20122842550	20120720
	CN103796708 A	20140514	CN201280040764	20120720
	DE602012043468 D1	20180329	DE201260043468T	20120720
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	EP2734262 A4	20141231	EP20120815417	20120720
	EP2734262 B1	20180228	EP20120815417	20120720
	IN01283DN2014 A	20150109	IN2014DN01283	20140220
	JP2014520896 A2	20140825	JP20140521836	20120720
	JP2014520896 T2	20140825	JP20140521836T	20120720
	JP6170044 B2	20170726	JP20140521836T	20120720
	KR20140074281 A	20140617	KR20147004240	20120720
	MX2014000765 A1	20140925	MX20140000765	20120720
	MX357598 B	20180716	MX20140000765	20120720
	RU2014106067 A	20150827	RU20140106067	20120720
	RU2607179 C2	20170110	RU20140106067	20120720
	US2014209100 AA	20140731	US20120233692	20120720
	WO13013172 A1	20130124	WO2012US47649	20120720

Probable Assignee: KISER PATRICK F

Assignee(s):(std): CLARK JUSTIN THOMAS ; JOHNSON TODD JOSEPH ; KAJZER PATRIK F ; KISER PATRICK ; RASTOGI RACHNA ; KISER PATRICK F ; SHELKE NAMDEV ; SHELK NAMDEV ; PATRICK F KISER ; UNIV UTAH RES FOUND

Assignee(s): THE UNIVERSITY OF UTAH RESEARCH FOUNDATION ; KISER PATRICK F CHICAGO ; OF UTAH UNIV ; OF UTAH RESEARCH FOUNDATION UNIV

Inventor(s):(std): CLARK JUSTIN THOMAS ; DZHONSON TODD DZHOZEF ; JOHNSON TODD JOSEPH ; KLARK DZHASTIN TOMAS ; NAMDEV SHELKE ; RASTOGI RACHNA ; KAJZER PATRIK F ; KISER PATRICK F ; SHELK NAMDEV ; SHELKE NAMDEV ; TODD JOSEPH JOHNSON ; SHELKE DAMDEV ; RACHNA RASTOGI ; PATRICK F KISER ; JUSTIN THOMAS CLARK ; DAMDEV SHELKE

Inventor(s): SHELKE NAMDEV SALT LAKE CITY ; KISER PATRICK F CHICAGO ; RASTOGI RACHNA SALT LAKE CITY ; JOHNSON TODD JOSEPH SALT LAKE CITY ; CLARK JUSTIN THOMAS BOUNTIFUL

Agent(s): SPRUSON AND FERGUSON; BORDEN LADNER GERVAIS LLP; HERNANDEZ YORCK DIPL ING; DARCY JULIA; HARRISON IP LTD; INABA YOSHIYUKI; MEARA JOSEPH 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 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 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

International class (IPC 8-9): A61F6/06 A61K31/00 A61K31/47 A61K31/505 A61K31/522 A61K31/565 A61K31/567 A61K31/675 A61K31/731 A61K38/04 A61K45/00 A61K47/00 A61K47/04 A61K47/10 A61K47/26 A61K47/34 A61K47/38 A61K47/44 A61K9/00 A61L15/16 A61L31/00 A61M31/00 A61P15/00 A61P15/02 A61P15/18 A61P31/00 (Advanced/Invention)

CPC: A61K31/57 A61K47/02 A61K31/731 A61K47/34 A61K9/0034 A61K31/522 A61K31/567 A61K31/675 A61M31/002 A61K9/0036 A61F6/06 A61K9/00 A61K31/00 A61K47/00 A61M31/00

US class: 128/832 604/285

JP class F-Term: 4C066 4C066/AA04 4C066/BB05 4C076 4C076/AA29 4C076/AA51 4C076/AA95 4C076/BB30 4C076/CC30 4C076/DD22 4C076/DD38 4C076/DD67 4C076/EE14 4C076/EE21 4C076/EE23 4C076/EE27 4C076/EE31 4C076/EE32 4C076/EE38 4C076/EE49 4C076/EE52 4C076/EE53 4C076/FF31 4C081 4C081/AC06 4C081/AC11 4C081/BB01 4C081/BB06 4C081/CA22 4C081/CA27 4C081/CB05 4C081/CC02 4C081/CE02 4C081/DA03 4C081/DB07 4C084 4C084/AA01 4C084/AA02 4C084/AA17 4C084/BA01 4C084/BA09 4C084/BA17 4C084/BA23 4C084/DA27 4C084/DB09 4C084/MA56 4C084/MA67 4C084/NA12 4C084/ZA81 4C084/ZA86 4C084/ZB26 4C086 4C086/AA01 4C086/AA02 4C086/BC29 4C086/BC42 4C086/DA38 4C086/EA26 4C086/MA01 4C086/MA05 4C086/MA56 4C086/MA67 4C086/NA12 4C086/ZA81 4C086/ZA86 4C201

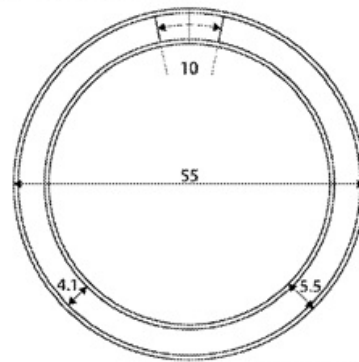
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[Classification Explorer](#)

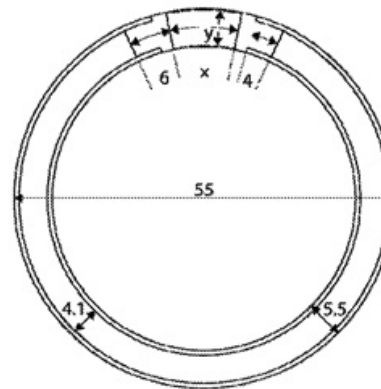
Cited documents: WO10138823 A1, WO10039641 A2, WO10039641 A2, WO09094573 A2, WO08089488 A2, US6951654 BB, US6951654, US6939569 BA, US6591654 BB, US6591654, US6416779 BA, US5059375 A, US4526578 A, US4523005 A, US4493699 A, US4493699 A, US2012296315 AA, US2011045076 AA, US2011045076 AA, US2007043332 AA, US2007043332 AA, US2006018951 AA, US2006018951 AA, US2003064028 AA, RU2412693 C2, RU2228170 C2, JP2011504484 T2, JP2011504484 A2, JP2011504484, JP2010510290 T2, JP2009542831 T2, JP2009542831 A2, JP2009542831, JP2007502316 T2, JP2007502139 T2, JP2007502139 A2, JP2007502139, JP10287549, CN1863504 A, CN1822815 A, CN101977651 A, CN101484495 A,

Forward Citations: WO19006122, WO19002486, WO17176768, WO17123577, WO17031916, WO16071466, WO14172569, WO14172569, WO14159169, WO14123880, US9775905, US9642795, US9226894, US9078813, US2016000797, US2015359890, US2015136143, US10137031, US10052329, TWI640306, JP2016520361, JP2016508789, EP3125964, EP3017809, CN106794336, CN106237495, CN105555281, CN104623743,

Abstract:
Intravaginal drug delivery devices, including intravaginal rings, are provided herein. The devices include a reservoir of at least one vaginally administrable drug wherein the reservoir is surrounded at least in part by a hydrophilic elastomer. The devices are capable of exhibiting a substantially zero order release profile of drug over extended periods of time. Also disclosed are methods for making the devices and methods of using the devices to prevent or treat a biological condition.



Dimensions in mm



Dimensions in mm

15) Family number: 32193452 (US2005187561A)

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Title: METHODS AND DEVICES FOR CONDUIT OCCLUSION

Priority:

US20040547491	20040225	US20040547491P	20040225	US20040587604P	20040713
US20050065886	20050224	EP20050723981	20050225	WO2005US06334	20050225
US20080240791	20080929	US20080240738	20080929	US20090504912	20090717
US20110285744	20111031	US20110285908	20111031	US20110286127	20111031
US20120703002P	20120919	US20120684524	20121124	US20120684529	20121124
US20120684546	20121125	US20120684549	20121125	US20130032162	20130919
US20140231261	20140331	US20150705390	20150506	US20160082912	20160328
US20170793306	20171025	US20180144033	20180927		

Family:

Publication number	Publication date	Application number	Application date
CA2556747 AA	20060824	CA20052556747	20050225
CA2556747 C	20130730	CA20052556747	20050225
CN1929799 A	20070314	CN200580006068	20050225
CN1929799 B	20110413	CN200580006068	20050225
DE602005038757 D1	20130529	DE200560038757T	20050225
EP1722732 A2	20061122	EP20050723981	20050225
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US10111687 BB	20181030	US20170793306	20171025
WO05082299 A2	20050909	WO2005US06334	20050225
WO05082299 A3	20051124	WO2005US06334	20050225

Probable Assignee: FEMASYS INC

Assignee(s):(std): AZEVEDO MAX S ; CURRIE DANIEL S ; FEMASYS INC ; LEE SEPSICK KATHY ; PAXTON LANI L L ; MARCUS JEFFREY A ; WILLIAMS STEPHEN N

Assignee(s): PAXTON LANI LL ; FEMASYS INC SUWANEE ; GENERAL ELECTRIC CAPITAL CORP

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Inventor(s): WILLIAMS STEPHEN N ATLANTA ; MARCUS JEFFREY A ATLANTA ; PAXTON LANI ; PAXTON LANI L L DECATUR ; PAXTON LANI LL ; STEPHEN N WILLIAMS ; WILLIAMS STEPHEN ; LEE SEPSICK KATHY PAXTON LANI L L ; LEE SEPSICK KATHY PAXTON LANI L L MARCUS JEFFREY A ; LEE SEPSICK KATHY SUWANEE ; MARCUS JEFFREY ; LANI L L PAXTON ; JEFFERY A MARCUS

Agent(s): FINLAYSON AND SINGLEHURST; VONNEMANN KLOIBER AND KOLLEGEN; CHARIG RAYMOND JULIAN; WILKINSON AND GRIST; TROUTMAN SANDERS LLP; BALLARD SPAHR LLP; MORRIS MANNING AND MARTIN LLP; MERCHANT MARY ANTHONY

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 SM SN SY SZ TD TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8-9): A61B17/12 A61B17/42 A61B17/425 A61B17/43 A61B17/435 A61B19/00 A61B6/00 A61F A61F11/00 A61F2/954 A61F6/00 A61F6/20 A61F6/22 A61K31/519 A61K31/57 A61K49/00 A61K51/00 A61K9/00 A61K9/14 A61L31/00 A61M25/00 A61M25/01 A61M29/00 A61M31/00 A61M36/04 A61M36/14 A61P15/00 (Advanced/Invention); A01N45/00 A61B17/12 A61B17/22 A61B17/3207 A61M25/00 A61M25/06 (Advanced/Non-invention); A61B6/00 A61K31/57 A61K49/00 A61K51/00 A61M25/00 A61M29/00 (Core/Invention); A61F (Subclass/Invention)

International class (IPC 1-7): A61B17/10 A61B17/12 A61B17/42 A61F11/00 A61F6/00 A61F6/22 A61M25/01

CPC: A61M31/00 A61B17/43 A61F2/954 A61M25/01 A61B17/435 A61M31/005 A61F6/005 A61B17/1204 A61B17/12136 A61F6/225 A61M2025/0681 A61B2017/1205 A61B17/12022 A61B17/12099 A61B17/12159 A61B17/12186 A61B17/1219 A61B17/12195 A61B17/22012 A61B17/320758 A61B17/42 A61B2017/22051 A61B2017/22084 A61B2017/4225 A61B2017/4233

European class: A61B17/12P5 A61B17/12P7P A61B17/12P7Z1 A61B17/12P7Z3 A61B17/12P7Z5 A61B17/42 A61F6/22B K61B17/12P K61B17/22B2 K61B17/22H K61B17/22S2 K61B17/3207R K61B17/42C2 K61B17/42F

US class: 1/1 128/831 128/832 424/1.11 424/1.110S 424/400 424/423 424/489 424/9.1 424/9.100S 514/169 514/169S 514/177 514/249 514/249S 600/33 600/33S 600/34 600/34S 600/35 600/35S 600/420 600/433 600/433S 600/435 604/515 604/515P 604/96.01 604/96.010S 606/108 606/108P 606/119 606/191 606/191P 606/191S 623/23.7

JP class F-Term: 4C030 4C060 4C060/HH20 4C060/MM27 4C081 4C081/AC04 4C081/BB04 4C081/CA08 4C081/CA16 4C081/CA18 4C081/CA23 4C081/CD01 4C081/CD09 4C081/CD11 4C081/CD12 4C081/CD18 4C081/CD20 4C081/DA01 4C081/DB08 4C098 4C098/AA06 4C098/DD12 4C098/DD25 4C098/DD26 4C098/DD27 4C098/EE21 4C160 4C160/DD54 4C160/DD62 4C160/HH20 4C160/MM32 4C167 4C167/AA02 4C167/AA03 4C167/BB45 4C167/CC25 4C167/DD10 4C167/GG14 4C167/GG16 4C167/GG34 4C167/GG42 4C167/GG43 4C167/HH11 4C267

JP class F-Index: A61B17/00/320 A61B17/12 A61B17/42/310 A61B17/42/510 A61B19/00/511 A61F6/20 A61L31/00/C A61L31/00/P A61L31/00/T A61L31/04/110 A61L31/04/120 A61L31/06 A61L31/14 A61L31/14/500 A61L31/16 A61M36/02 A61M36/08 A61M37/00/590 A61M37/04

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BRBR1120130114347

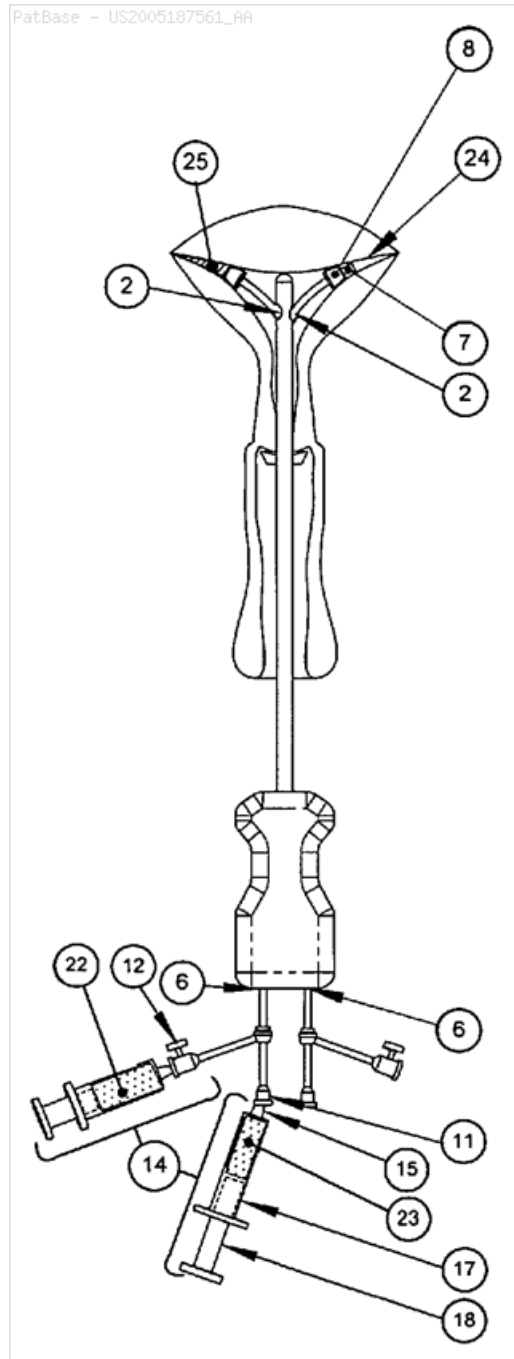
Forward Citations:

BR112013011434 A2
WO18148453, WO17083753, WO17039641, WO17038557, WO16097924, WO16001432, WO14205440, WO13160295, WO13052967, WO12177915, WO12177915, WO12109462, WO12109462, WO12064884, WO11141866, WO11141866, WO11107296, WO11013127, WO11013127, WO10040046, WO09059741, WO08112575, WO08112575, USRE46115, USD718435, US98714436, US9993290, US9962224, US9949812, US9943334, US9931349, US9918778, US9907891, US9884165, US9872724, US9839555, US9839444, US9775622, US9763701, US9743974, US9743917, US9743904, US9737308, US9737307, US9737306, US9730679, US9724492, US9717883, US9694165, US9662117, US9662060, US9642591, US9636116, US9636082, US9571593, US9561257, US9554826, US9549748, US9533116, US9526649, US9498252, US9451965, US9421121, US9408634, US9402762, US9370656, US9364638, US9339327, US9339323, US9308023, US9301920, US9289382, US9282995, US9277962, US9248136, US9247960, US9247959, US9247942, US9238127, US9220880, US9217442, US9216037, US9180091, US9173698, US9149277, US9114146, US9114145, US9107669, US9095344, US9072907, US9061121, US9060771, US9050094, US9044272, US9034053, US9017351, US9012434, US9011495, US9006222, US8993549, US8993548, US8992409, US8987238, US8987237, US8984733, US8961448, US8933059, US8905032, US8888770, US8874215, US8870867, US8827995, US8827992, US8795153, US8777876, US8764627, US8734318, US8728072, US8726906, US8696745, US8696662, US8696543, US8695606, US8678997, US8636809, US8603105, US8602966, US8600510, US8585616, US8574229, US8556796, US8551001, US8545384, US8509894, US8496006, US8449578, US8434489, US8419727, US8403953, US8388674, US8360065, US8357176, US8336552, US8324193, US8316854, US8316853, US8313423, US8290594, US8287444, US8173722, US8137302, US8052669, US8048101, US8048086, US8025670, US7942874, US7862565, US7803156, US7794461, US7731712, US7730889, US2018185096, US2017215798, US2017136143, US2017079513, US2017056237, US2016001051, US2015342642, US2015209547, US2015202411, US2015157836, US2014276717, US2014249367, US2014155745, US2014135735, US2014024934, US2013165744, US2013123613, US2013019374, US2013006334, US2012172911, US2012136369, US2012116217, US2012101498, US2011282135, US2011224787, US2011202131, US2011202041,

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Abstract:

The present invention comprises systems, methods and devices for the delivery of compositions for occluding or of means for opening conduits. The implantable occlusive material may be delivered pre-formed or in situ cured and, may be a resorbable material that supports tissue ingrowth that eventually replaces the material leaving little or no original material in place. The delivery system is positioned to allow for placement of the occlusive material into the body conduit. Use of delivery systems, methods and devices for re-opening an occluded body conduit are also included.



Title:

DRUG DELIVERY DEVICE EMPLOYING WICKING RELEASE WINDOW

Priority:

US20110520152P 20110606 AU20120268068 20120606 CN201280038214 20120606
JP20140514605T 20120606 JP20160249634 20120606 WO2012US41159 20120606
US20120124517 20120606 US20140124517 20140617 JP20160249634 20161222
AU20170200240 20170113 US20180905565 20180226

Family:

Publication number	Publication date	Application number	Application date
AU2012268068 AA	20140116	AU20120268068	20120606
AU2012268068 BB	20161013	AU20120268068	20120606
AU2017200240 AA	20170202	AU20170200240	20170113
AU2017200240 BB	20180308	AU20170200240	20170113
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EP2717813 A1	20140416	EP20120796540	20120606
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WO12170578 A1	20121213	WO2012US41159	20120606

Probable Assignee:

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Assignee(s):(std):

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Assignee(s):

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Inventor(s):(std):

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Agent(s):

SPRUSON AND FERGUSON; BENOIT AND COTE INC; SALISBURY FRANCES; DEACONS; TAMURA YASUO; SAMEJIMA MUTSUMI; GONJOU KEIICHI; YOSHIDA TAKAKI; STEINFL AND BRUNO LLP; HUBER LINDA 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 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

International class (IPC 8-9):

A61F A61F11/00 A61F6/08 A61F6/14 A61K31/675 A61K45/00 A61K47/10 A61K47/32 A61K47/34 A61K47/38 A61K47/42 A61K9/00 A61K9/02 A61K9/06 A61L31/04 A61M31/00 A61M37/00 A61M5/00 A61P1/00 A61P1/02 A61P1/04 A61P1/08 A61P1/10 A61P1/12 A61P1/14 A61P1/16 A61P1/18 A61P11/00 A61P11/02 A61P11/06 A61P13/02 A61P13/08 A61P13/10 A61P13/12 A61P15/00 A61P15/02 A61P15/06 A61P15/10 A61P17/00 A61P17/04 A61P17/06 A61P19/02 A61P19/04 A61P19/10 A61P21/00 A61P21/04 A61P25/00 A61P25/02 A61P25/06 A61P25/16 A61P25/20 A61P25/22 A61P25/24 A61P25/28 A61P27/02 A61P27/06 A61P27/16 A61P29/00 A61P3/04 A61P3/06 A61P3/10 A61P31/00 A61P31/02 A61P31/04 A61P31/12 A61P35/00 A61P37/02 A61P37/06 A61P37/08 A61P43/00 A61P5/00 A61P5/14 A61P7/02 A61P7/08 A61P7/10 A61P9/00 A61P9/02 A61P9/04 A61P9/10 A61P9/12 (Advanced/Invention)

CPC:

A61M31/002 A61K9/0036 A61K47/32 A61K47/34 A61K47/38 A61K31/675 Y02A50/465

US class:

604/285 604/515

JP class F-Term:

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JP class F-Index:

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Classification Explorer

Cited documents:

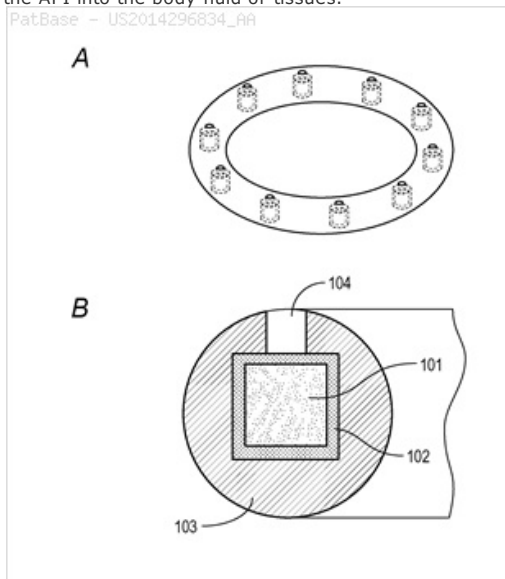
WO9804220 A1, WO201069141, WO12170578 A1, WO10146591 A2, WO10133757 A1, WO10069141 A1, WO10069141, WO09036999 A1, WO03026616 A1, US6004582 A, US5972372 A, US5756115 A, US4783337 A, US4014335 A, US3854480 A, US3630200 A, US2011045076 AA, US2011045076, US20110045076,

US2010285097 AA, US2009290933 AA, US2009004246 AA, US2006280795 AA, US2006127483 AA, US2005276836 AA, US2005197651 AA, US2002106410 AA, KR20140037194 A, JP2014520111 T2, JP2010504484 T2, JP2010504484, JP2007126478 A2, JP2007126478, JP2005535558 T2, JP2005535558, JP2005533558 T2, JP2004517674 T2, JP2004517674, JP2003509354 T2, JP2003509354, JP200302825, JP2003002825 A2, JP2003002825, JP11512965 T2, JP11512965, EP2717813 A1, EP2062568 A1, EP0050867 A1, CN1198091 A, CN103747765 A,

Forward Citations: WO18195346, WO16120402, WO15198104, WO15036952, WO14123880, US9974759, US9937335, US9931349, US9820994, US9301920, US9289382, US9248136, US9180091, US9114146, US9114145, US9012434, US9006222, US8993549, US8993548, US8987238, US8987237, US8933059, US10258630, US10206932, US10052386, KR20160088998, KR101656170, JP3696506, JP2002195871, EP2982352, EP2982352, CN105392454,

Abstract:

The present invention provides for a drug delivery device. The device can comprise at least one core with a first active pharmaceutical ingredient (API), coated with a first layer that is permeable or semi-permeable to the API, coated with a second layer that is impermeable to the API, and having a delivery window to allow passage of the API through the device and into body fluids or tissues. The device can also have a wicking material to modify the rate of transport of the API into the body fluid or tissues.



17) Family number: 1149469 (US3892238A)

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Title: Drug supporting anchor
Priority: US19710181007 19710916 US19740433062 19740114
Family:

Publication number	Publication date	Application number	Application date
PH12167 A	19781121	PH19740015399	19740109
US3892238 A	19750701	US19740433062	19740114

Probable Assignee: ABBOTT LABORATORIES
Assignee(s):(std): ABBOTT LAB
Assignee(s): ABBOTT LABOR ; ABBOTT LABORATORIES
Inventor(s):(std): BANFORD J ; BANFORD JOHN A ; MAUER R ; MAUER RUSSELL E ; MOYER R ; MOYER RONALD H
International class (IPC 8-9): A61B17/32 A61D7/00 A61K9/00 A61M31/00 (Advanced/Invention); A61B17/32 A61D7/00 A61K9/00 A61M31/00 (Core/Invention)
International class (IPC 1-7): A61B17/32 A61F5/46 A61M31/00
CPC: A61D7/00 A61K9/0036 A61M31/002
European class: A61D7/00 A61K9/00M8B A61M31/00D
US class: 128/260 128/833 128/839 424/430 600/35

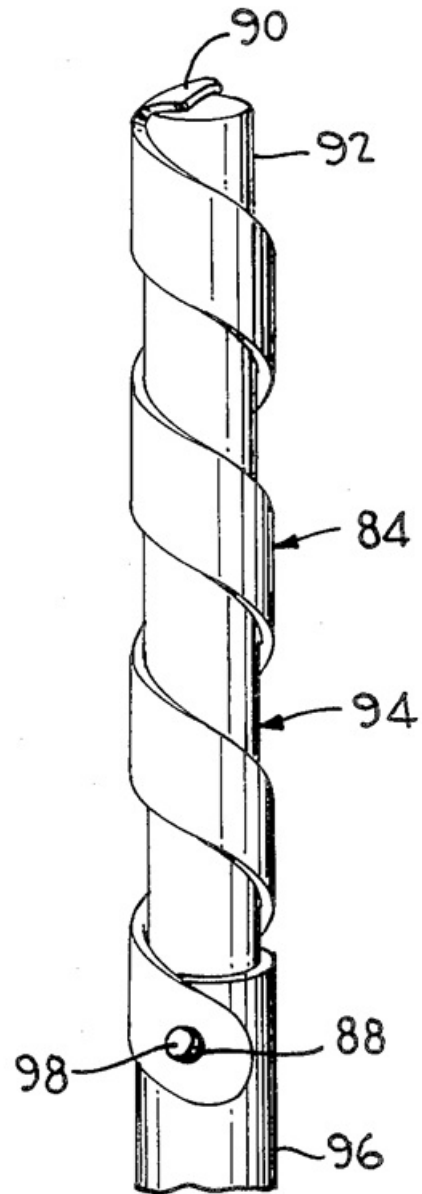
[Classification Explorer](#)

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Forward Citations: WO11086175, WO08061963, WO07143063, WO07143063, WO0232345, USD647612, USD647611, USD647610, USD477075, US9949869, US9561351, US9504771, US9320890, US5674178, US4246896, US4192308, US2012272969, US2011112618, US2011098797, US2010136090, US10039863, FR2748651, FR2654921, EP0807423, EP0010987, DE3115763, AU2007324588,

Abstract:

A drug supporting anchor for insertion and retention in body cavities including an elongated member having a drug support surface with a spiral configuration for supporting a drug to be administered, and the combination of a drug supporting anchor as described above with a drug supported thereon in either strip form or as a uniform layer. A method for inserting a flexible spiral anchor having a drug supported thereon in a body cavity including stretching the anchor to reduce the diameter thereof, inserting the anchor in the body cavity and releasing the stretched anchor to permit the anchor to return to the original diameter after insertion.

**18) Family number: 44990508** (US2011280922A)

© PatBase

Title:

DEVICES AND METHODS FOR TREATING AND/OR PREVENTING DISEASES

Priority:

US20080112366P	20081107	US20080112369P	20081107	US20080112372P	20081107
US20080112377P	20081107	US20090152304P	20090213	US20090155694P	20090226
US20090155696P	20090226	US20090161502P	20090319	US20090063887	20091109
WO2009US63704	20091109	US20110063887	20110526	US20130096493	20131204

Family:

Publication number	Publication date	Application number	Application date
AU2009313304 AA	20100514	AU20090313304	20091109
AU2009313304 BB	20140724	AU20090313304	20091109
CA2739147 AA	20110322	CA20092739147	20091109
CN102215901 A	20111012	CN200980144323	20091109
CN102215901 B	20141203	CN200980144323	20091109
EP2352544 A2	20110810	EP20090825543	20091109
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HK1157258 A3	20120629	HK20110111834	20111102
HK1162366 A1	20150703	HK20120102811	20120320
HK1162366 A1	20120831	HK20120102811	20120320
HK1162366 B	20150703	HK20120102811	20120320
JP2012510828 T2	20120517	JP20110534936T	20091109
JP5632851 B2	20141126	JP20110534936T	20091109
US2011280922 AA	20111117	US20090063887	20091109

US2014094407 AA	20140403	US20130096493	20131204
WO10054296 A2	20100514	WO2009US63704	20091109
WO10054296 A3	20100916	WO2009US63704	20091109

Probable Assignee: VIMAC VENTURES LLC

Assignee(s):(std): BACA QUENTIN ; BISWAS SURAJIT K ; COMBINENT BIOMEDICAL SYSTEMS I ; COMBINENT BIOMEDICAL SYSTEMS INC ; TASHJIAN ARMEN ; LANGER ROBERT ; CROWLEY WILLIAM F ; EYAL RON S ; RON EYAL S ; SAUNDERS PRESTON H ; VIMAC VENTURES LLC

Assignee(s): VIMAC VENTURES177 MILK STREETBOSTONMA02109US ; VIMAC VENTURES ; COMBINENT BIOMEDICAL SYSTEMS INC240 - 420 BEDFORD STREETLEXINGTONMA02420US

Inventor(s):(std): ARMEN TASHJIAN ; BACA QUENTIN ; BISWAS SURAJIT K ; CROWLEY WILLIAM F ; EYAL RON S ; LANGER ROBERT ; QUENTIN BACA ; ROBERT LANGER ; RON EYAL S ; SAUNDERS PRESTON H ; TASHJIAN ARMEN ; TASHJIAN ARMEN A ; RON EYAL S ES ; LANGER ROBERT S ; LANGER ROBERT R ; CROWLEY WILLIAM F WF ; CROWLEY JR WILLIAM F ; BISWAS SURAJIT K SK ; BACA QUENTIN Q

Inventor(s): TASHJIAN ARMENUS ; WILLIAM F CROWLEY ; SURAJIT K BISWAS ; RON EYAL SUS ; RON S EYAL ; LANGER ROBERTUS ; CROWLEY WILLIAM FUS ; BISWAS SURAJIT KUS ; BACA QUINTINUS

Agent(s): CALLINANS; SPRUSON AND FERGUSON; FISHER ADAMS KELLY CALLINANS; RICHES MCKENZIE AND HERBERT LLP; LOCK GRAHAM JAMES; SHUN SHUN CHAN; KAVANAUGH THERESA C 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 TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8-9): A61F13/20 A61K31/56 A61K31/57 A61K38/00 A61K38/02 A61K38/09 A61K47/32 A61K47/34 A61K9/00 A61K9/107 A61M A61M31/00 A61M37/00 A61P15/00 A61P31/12 A61P35/00 (Advanced/Invention); A61M37/00 (Core/Invention); A61M (Subclass/Invention)

CPC: A61K47/32 A61K38/09 A61F13/20 A61K9/0036 A61K9/0092 A61M31/002

European class: A61F13/20 A61K9/00M8B A61K9/00Z4 A61M31/00D

US class: 424/430 424/430S 424/431 424/431P 514/1.1 514/1.100S 514/10.3 514/10.300S 514/10.4 514/10.400S 514/11.7 514/169 514/169S 514/5.8 514/772.3 514/772.300S 514/772.6 514/772.600S 514/9.7

JP class F-Term: 4C066 4C066/AA04 4C066/BB05 4C066/CC06 4C066/DD06 4C066/GG01 4C076 4C076/AA02 4C076/AA22 4C076/BB30 4C076/CC17 4C076/CC27 4C076/CC30 4C076/EE07 4C076/EE24 4C076/FF68 4C084 4C084/AA01 4C084/AA02 4C084/BA01 4C084/BA16 4C084/BA17 4C084/BA19 4C084/DB09 4C084/MA23 4C084/MA70 4C084/NA10 4C084/ZA81 4C084/ZB26 4C086 4C086/DA10 4C086/MA01 4C086/MA02 4C086/MA05 4C086/MA23 4C086/MA70 4C086/NA10 4C086/ZA81 4C086/ZB26 4C201

JP class F-Index: A61K31/57 A61K37/02 A61K38/00 A61K38/07 A61K38/08 A61K38/09 A61K47/32 A61K47/34 A61K9/107 A61M31/00 A61P15/00 A61P35/00

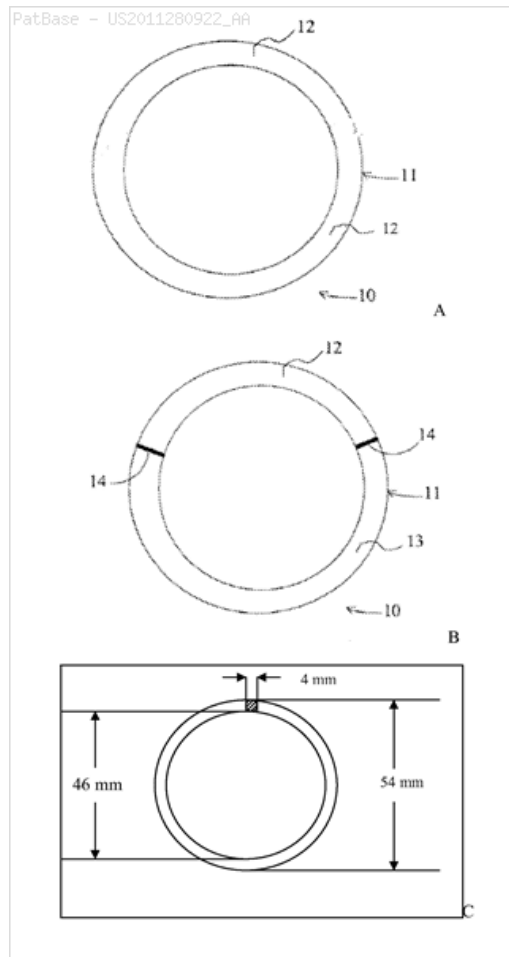
[Classification Explorer](#)

Cited documents: WO09130265 A2, WO06121969 A1, WO05004837 A1, WO04096151 A2, WO0209631 A1, US6605060 BA, US5989581 A, US5340585 A, US4402695 A, US4340055 A, US4016251 A, US3918452 A, US3796219 A, US2013136784 AA, US2007196433 AA, US2007009602 AA, US2005131386 AA, US2003219378 AA, JP2007525461 T2, JP2007525461, JP2007521928 T2, JP2007521928, JP2005538791 T2, JP2005538791, JP2004536640 T2, JP2004536640, JP2004530721 T2, JP2004530721, JP2004519420 T2, JP2004519420, JP10503757 T2, JP10503757, JP10287549 A2, JP10287549, CN2416900, CN2127624, CA2646593 AA,

Forward Citations: WO19014076, WO15095128, WO13090871, WO13063127, US9944637, US9908879, US9439863, US9427400, US8580294, US2015004225, US2011236462, US10137031, JP2017501158, JP2015505707, JP2013523745, EP2771320, CN104379111,

Abstract:

The invention relates to a therapeutic device for the delivery of therapeutic agents, e.g. a peptide such as leuprolide, via the vagina to a female mammal. In some embodiments, the invention also relates to methods for the treatment of obesity and eating disorders, diabetes, multiple sclerosis (MS), endometriosis, uterine fibroids, polycystic ovarian disease, various cancers such as breast cancer, acne, hirsutism, microbial or fungal or viral infections such as bacterial vaginosis or AIDS/HIV, and chronic diseases using a disclosed vaginal device.



19) Family number: 6627520 (US3903880A)

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Title: INTRAUTERINE DEVICE FOR MANAGING THE REPRODUCTIVE PROCESS

Priority: US1970080531 19701001 US19720281446 19720817 US19750582131 19750530
US19750582353 19750530 US19750591712 19750630 US19760705470 19760707
US19760705479 19760715 US19770826928 19770822

Family:	Publication number	Publication date	Application number	Application date
	US3903880 A	19750909	US19720281446	19720817
	US4016251 A	19770405	US19750582131	19750530
	US4052505 A	19771004	US19760705479	19760715
	US4057619 A	19771108	US19760705470	19760715
	US4069307 A	19780117	US19750582353	19750530
	US4144317 A	19790313	US19770835319	19770921
	US4188951 A	19800219	US19770826928	19770822

Probable Assignee: ALZA CORP

Assignee(s):(std): ALZA CORP

Inventor(s):(std): HUSSAIN ANWAR A ; HUSSAIN ANWAR ; HIGUCHI TAKERU

International class (IPC 8-9): A61F9/00 A61K9/22 A61K9/26 (Advanced/Invention);
A61F9/00 A61K9/22 A61K9/26 (Core/Invention)

International class (IPC 1-7): A61F5/46 A61K47/00 A61K9/00 A61K9/22 A61K9/24 A61K9/26 A61K9/52 A61M31/00 A61M7/00

CPC: A61F6/14 A61F6/142 A61K9/0039 A61K9/0092 A61M31/002 A61F9/0017 A61K9/0004 A61K9/0036
A61K9/7084 A61K9/0051

European class: A61F6/14 A61F6/14B A61F9/00B2 A61K9/00M16B A61K9/00M8D A61K9/00Z4 A61K9/70E2D A61M31/00D

US class: 128/130 128/260 128/832 128/833 424/14 424/15 424/21 424/22 424/422 424/427 424/432 424/435
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[Classification Explorer](#)

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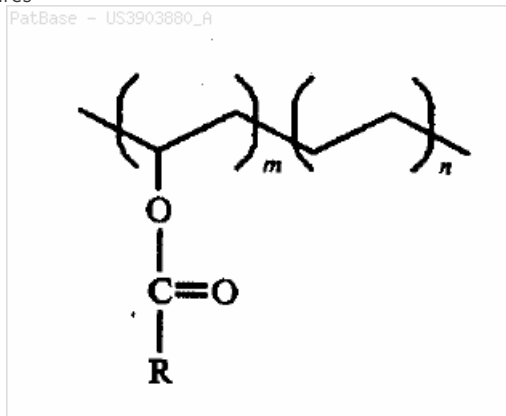
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Abstract:

Drug-delivery device for releasing a drug at a continuous and controlled rate for a prolonged period of time is comprised of a shaped body of polymeric material containing a pharmaceutically acceptable drug and permeable to passage of the drug by diffusion. The polymeric material is an ethylene-vinyl acetate copolymer having a vinyl acetate content of about 4 to 80 percent by weight and a melt index of about 0.1 to 1000 grams per 10 minutes. Claims, 5 Drawing Figures



20) Family number: 29443553 (US7083590B)

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Title: MULTIPLE MATERIAL DISPENSING
Priority: NZ19990337318 19990818 WO2000NZ00155 20000809
Family:

Publication number	Publication date	Application number	Application date
AR025289 AA	20021120	AR2000P104227	20000816
AU200067421 A1	20010313	AU20000067421	20000809
AU200067421 A5	20010313	AU20000067421D	20000809
AU757372 B2	20030220	AU20000067421	20000809
CA2380589 AA	20020215	CA20002380589	20000809
CA2380589 C	20080923	CA20002380589	20000809
CL2000002199 A1	20010821	CL20000002199	20000817
EP1210030 A1	20020605	EP20000955189	20000809
JP2003506192 T2	20030218	JP20010516448T	20000809
MY128526 A	20070228	MY20000003710	20000814
NZ337318 A	20020726	NZ19990337318	19990818
US7083590 BA	20060801	US20000048981	20000809
WO0112101 A1	20010222	WO2000NZ00155	20000809

Probable Assignee: INTERAG

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Assignee(s): DEC RESEARCH ; DEC INT NZ LTD

Inventor(s):(std): RATHBONE MICHAEL JOHN ; OGLE COLIN ROGER ; BURGGRAAF SHANE ; BUNT CRAIG ROBERT

Inventor(s): ROGER COLIN ; RATHBONE MICHAEL ; BUNT CRAIG ; MICHAEL JOHN RATHBONE ; CRAIG ROBERT BUNT ; COLIN ROGER OGLE ; SHANE BURGGRAAF

Agent(s): AJ PARK; A J PARK; RICHES MCKENZIE AND HERBERT LLP; VILLASECA; TSURUTA JUNICHI; NISHIYAMA MASAYA; HIGUCHI SOTOJI; ISHIDA TAKASHI; JACOBSON HOLMAN PLLC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN 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 NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

International class (IPC 8-9): A61D19/00 A61D7/00 A61F6/08 A61M1/00 A61M31/00 A61M5/142 A61M5/145 (Advanced/Invention); A61M5/142 A61M5/145 (Advanced/Non-invention); A61D7/00 A61F6/00 A61M1/00 A61M5/145 (Core/Invention); A61M5/142 (Core/Non-invention)

International class (IPC 1-7): A61D19/00 A61D7/00 A61F6/08 A61M31/00 A61M5/00 B05B7/26 B65D83/64 B67D5/54

CPC: A61F6/08 A61D7/00 A61M5/1452 A61M2005/14204 A61M2210/1475

European class: A61D7/00 A61F6/08 A61M5/145B K61M210/14E K61M5/142A2

US class: 604/218 604/30

JP class F-Term: 4C102

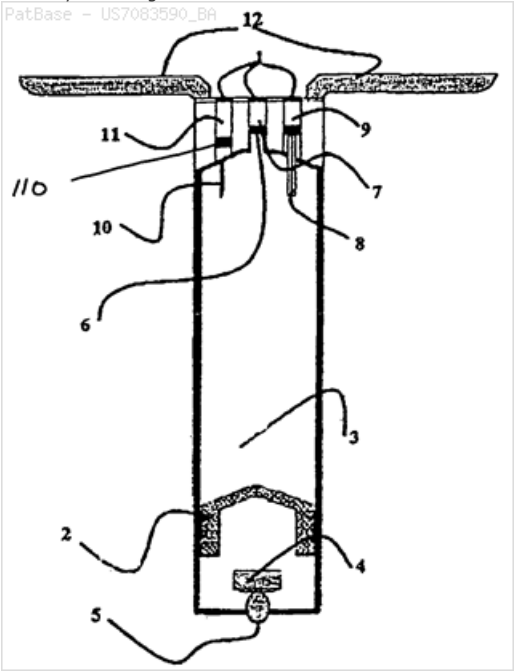
JP class F-Index: A61D7/00/A

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Cited documents: WO9926556 A1, WO9912593 A2, WO9907346 A1, WO9833452 A1, WO9740776 A1, WO9637189 A1, WO9629025 A1, WO9608280 A1, WO9513760 A1, WO9401165 A1, WO9207612 A1, WO9116094 A1, WO0037130 A1, US6450991 BA, US5989215 A, US5741275 A, US5599312 A, US5593552 A, US5460242 A, US5354264 A, US5290259 A, US5090963 A, US4439184 A, US4413991 A, US4413391 A, US4323066 A, US4091807 A, US3923058 A, NZ329338 A, NZ210601 A, EP0737484 A2,

Forward Citations: WO14113097, WO03065924, USD829390, US9999720, US9931349, US9801660, US9744341, US9717526, US9301920, US9297083, US9289382, US9248136, US9204895, US9180091, US9017310, US9014799, US9012434, US9006222, US9005108, US8987238, US8987237, US8933059, US8882748, US8846649, US8846648, US8633178, US2015105751, US2015105610, US2014200553, US2011087195, US2011087192, US2011087155, US2007175392, US10258630, US10206932, US10052386, US09999720, JP6317764, JP2016506772, JP2011078770, EP2308465, EP2308465, CN107854767, CN104902846, CN102641548, CN102641548, AU2011200392,

Abstract:
A device suitable for use as an intra vaginal device or as a bolus where, after initiation, a member (usually a plunger) moves with a known movement characteristic and is involved in the stagger release of multiple materials. That moving member is used to time the discharge of one or more material from its reservoir in the device (there being separate powering of the timed discharge) or is used to both time and indirectly power the discharge of one or more material from its reservoir, such discharges preferably being in a staggered manner. Optionally the moving member as a plunger may itself also directly discharge a material from a reservoir.



Family:

Publication number	Publication date	Application number	Application date
BR112016010062 A2	20180320	BR20161110062	20141105
EP3065799 A1	20160914	EP20140799648	20141105
HK1228318 A1	20171103	HK20170102048	20170223
US2015126968 AA	20150507	US20130071929	20131105
WO15069700 A1	20150514	WO2014US64030	20141105

Probable Assignee:

PALO ALTO RESEARCH CENTER INC

Assignee(s):(std):

INGURAN LLC ; PALO ALTO RES CT INC

Assignee(s):

PALO ALTO RESEARCH CENTER INC

Inventor(s):(std):

ABHISHEK RAMKUMAR ; LINN FELICIA ; RAMKUMAR ABHISHEK ; FELICIA LINN

Agent(s):

JACOB REUBEN ELLIS; NORTON ROSE FULBRIGHT HONG KONG; KING KEVIN W 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

International class (IPC 8-9): A61K A61K9/00 A61M A61M31/00 A61M5/142 A61M5/145 A61M5/148 A61M5/162 (Advanced/Invention)**CPC:**

A61M31/002

US class:

604/131 604/244 604/500 604/514

[Classification Explorer](#)**Cited documents:**

WO9907346 A1, WO13040247 A2, WO11133724 A2, US8323262 BB, US3948254 A, US2014088346 AA, US2014088345 AA, US201313742203, US201213629184, US201213629159, US201213629124, US2011087195 AA, US2011087192 AA, US2011087155 AA, US2009281528 AA, US2006122563 AA, EP2308546 A1,

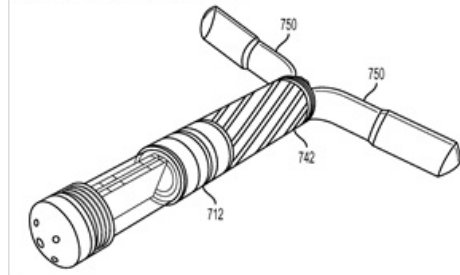
Forward Citations:

USD829390, US9895103, US9867974, US2016346524, US2016067467, US10183154,

Abstract:

Devices and methods are provided for fluid delivery. The device may include a housing having an outer surface which includes a porous membrane, a fluid reservoir disposed in the interior region of the main housing and formed at least in part by a wall structure, a puncture mechanism operable to puncture the wall structure and form a fluidic path between the fluid reservoir and one or more channels in fluid communication with the porous membrane, and a positive displacement mechanism operable, following puncture of the wall structure, to drive a fluid out of the fluid reservoir, through the one or more channels, and into the porous membrane.

PatBase - US2015126968_AA

**22) Family number: 1202591 (US3921636A)**

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Title:

NOVEL DRUG DELIVERY DEVICE

Priority:

US19710169974 19710809 US19730323370 19730115 US19740462895 19740422

Family:

Publication number	Publication date	Application number	Application date
US3921636 A	19751125	US19740462895	19740422

Probable Assignee:

ALZA CORP

Assignee(s):(std):

ALZA CORP

Inventor(s):(std):

ZAFFARONI ALEJANDRO

International class (IPC 8-9):

A61F13/15 A61F13/20 A61F6/14 A61K9/00 A61K9/16 A61K9/20 A61K9/50 A61M31/00 (Advanced/Invention); A61F13/15 A61F13/20 A61F6/00 A61K9/00 A61K9/16 A61K9/20 A61K9/50 A61M31/00 (Core/Invention)

International class (IPC 1-7):

A61F13/20 A61F5/46 A61M31/00

CPC:

A61F13/84 A61F6/14 A61F13/202 A61F13/2051 A61F13/2074 A61F13/8405 A61F2013/15048 A61F2013/15113 A61K9/0036 A61K9/0039 A61K9/1652 A61K9/2081 A61K9/5042 A61M31/002

European class:

A61F13/20C A61F13/84 A61F6/14 A61K9/00M8B A61K9/00M8D A61K9/16H6F A61K9/20K2B A61K9/50H6F2 A61M31/00D K61F13/15A11 K61F13/15A14 K61F13/15A1A K61F13/20 K61F13/20A6 K61F13/84B

US class:

128/260 128/833 424/424 424/425 424/431 424/432 424/433 424/436 424/468 424/486

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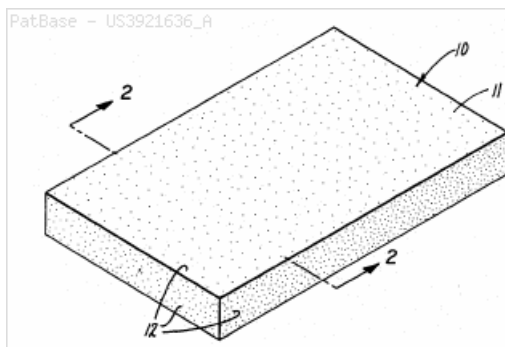
Forward Citations:

WO9832422, WO8907935, WO8703473, WO8702576, WO8603416, WO8200005, WO17205769, WO17205766, WO17205762, WO17040617, WO17027402, WO17014664, WO15084998, WO14186336, WO14165956, WO14130619, WO13063004, WO12094638, WO11143152, WO11139489, WO11130689, WO11130455, WO11119894, WO10071866, WO10027875, WO09035818, WO08066899, WO08039218, WO08021368, WO07143131, WO07143131, WO07062266, WO04026950, WO04026950, USRE34365,

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Abstract:

A drug delivery device for administering drug at a controlled rate for a prolonged period of time is disclosed. The device comprises a plurality of reservoirs containing drug distributed through a matrix. The reservoirs and the matrix are formed of materials permeable to passage of drug. The rate of drug permeation (release) from the reservoir is lower than the rate of permeation through the matrix so that release from the reservoir is the drug release rate controlling step.



23) Family number: 6132609 (NL7400528A)

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Title: DRUG SUPPORTING ANCHOR - HAVING SPIRAL CONFIGURATION FOR INSERTION INTO BODY CAVITIES
Priority: NL19740000528 19740115

Family:	Publication number	Publication date	Application number	Application date
	NL173596 B	19830916	NL19740000528	19740115
	NL173596 C	19840216	NL19740000528	19740115
	NL7400528 A	19750717	NL19740000528	19740115

Probable Assignee: ABBOTT LABORATORIES
Assignee(s):(std): ABBOTT LAB ; ABBOTT LABORATORIES
Assignee(s): ABBOTT LABORATORIES TE NORTH CHICAGO ILLINOIS VER ; ABBOTT LABORATORIES TE NORTH

FI752848 A	19760419	FI19750002848	19751014
FR2287917 A1	19760514	FR19750031647	19751016
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Probable Assignee: SCHERING AG

Assignee(s):(std): SCHERING AG DE WB ; SCHERING AKTIENGESELLSCHAFT TE BERLIJN EN BERGKAME ; SCHERING AKTIENGESELLSCHAFT ; SCHERING AG WB DE ; SCHERING AKTIENGESELLSCHAFT BERLIN UND BERGKAMEN ; SCHERING A G ; SCHERING AG

Assignee(s): SCHERING AG DE ; HARTMANN HEIDEMARIE ; LAUDAHN GERHARD ; MUHE BARBARA ; SCHERING AG WB ; SCHERING AKTIENGESELLSCHAFT TE BERLIJN EN BERGKAMEN BONDSREPUBLIC DUITSLAND ; WINDT FRED ; SCHOPFLIN GISELA ; SCHOPFLIN HERTWIG GISELA ; SCHERING WB DE AG ; SCHERING TE BERLIJN EN BERGKAMEN BONDSREPUBLIC DUITSLAND AG ; SCHERING BERLIN U BERGKAMEN AG

Inventor(s):(std): SCHOEPLIN GISELA DR ; SCHOEPLIN GISELA ; SCHOEPLIN G ; PROF DR GERHARD LAUDAHN ; MYHE B ; MUHE BARBARA DR ; MUHE BARBARA ; MUHE B ; MUEHE BARBARA WB ; MUEHE BARBARA DR ; MUEHE BARBARA ; MUEHE B ; LAUDAN G ; LAUDAHN GERHARD WB ; LAUDAHN GERHARD PROF DR ; LAUDAHN GERHARD ; LAUDAHN G ; KHAJDERMARI KHARTMANN DT ; HEIDEMARIE HARTMANN ; HARTMANN HEIDEMARIE WB ; HARTMANN HEIDEMARIE ; HARTMANN H ; HAIDEMARII HARUTOMAN ; H HARTMANN ; GIZERA SHEPUFURIN ; GIZELA SHEPFLIN KHERTVIG DE ; GIZELA SHEPFLIN DT ; WINDT FRED WB ; WINDT FRED ; WINDT F ; SCHOPFLIN HERTWIG G ; SCHOPFLIN GISELA DR ; SCHOPFLIN GISELA ; SCHOPFLIN GISELA DR ; SCHOPFLIN G ; SCHOEPLIN HERTWIG GISELA WB ; SCHOEPLIN HERTWIG GISELA ; SCHOEPLIN GISELLA WB ; SCHOEPLIN GISELLA ; G SCHOPFLIN HERTWIG ; G SCHOPFLIN ; G LAUDAHN ; FURETO UINTO ; FRED WINDT ; FRED VINDT DT ; F WINDT ; DR GESELA SCHOPFLIN ; DR BARBARA MUHE ; BARUBARA MYUUE ; BARBARA MYUE DT ; B MUHE ; VINDT FRED ; SHEPFLIN KHERTVIG GISELA ; SHEPFLIN GIZELA ; MYUE BARBARA ; LAUDAN GERKHARD ; KHARTMANN KHAJDERMARI ; GIZERA SHIEPUFURIN HERUTOBUIITS ; GERUHARUTO RAUDAAN ; GERKHARD LAUDAN DT

Inventor(s): GERHARD LAUDAHN ; SCHOPFLIN HARTWIG G ; SCHOPFLIN HERTWIG GISELA ; BARBARA MUEHE ; DR GISELA SCHOPFLIN ; SCHOEPLIN GISELA WB ; GISELA SCHOEPLIN

Agent(s): CA ; DAVIES COLLISON CAVE PTY LTD ; MARKS AND CLERK ; WOLFF BREGMAN AND GOLLER

International class (IPC 8-9): A61F13/20 A61F6/02 A61F6/06 A61F6/08 A61K9/00 A61K9/22 A61M31/00 C08G77/38 (Advanced/Invention); A61F13/20 A61F6/00 A61K9/00 A61K9/22 A61M31/00 C08G77/00 (Core/Invention)

International class (IPC 1-7): A61B1/30 A61D7/00 A61F13/20 A61F5/42 A61F5/46 A61F5/47 A61K31/56 A61K31/57 A61K31/74 A61K47/00 A61K9/00 A61K9/22 A61M31/00 C08G77/38

CPC: A61F6/08 A61K9/0036 A61M31/002

European class: A61F6/08 A61K9/00M8B A61M31/00D

US class: 128/832 424/15 424/432

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JP class F-Index: A61F5/46 A61F6/08

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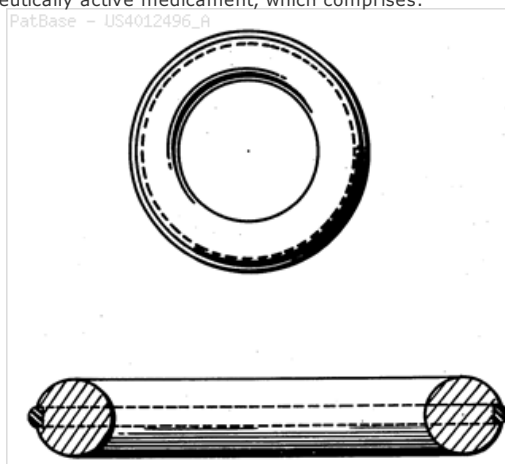
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Forward Citations: WO9804220, WO9740776, WO9702015, WO9509641, WO9500199, WO8810111, WO18229148, WO17108671, WO15041353, WO15036952, WO15035003, WO14167510, WO13140372, WO12024461, WO12024461, WO11156674, WO11011099, WO09109966, WO09099586, WO09066006, WO07119185, WO07119185, WO03080019, WO03080018, WO03028639, WO03028639, WO02076426, WO02076426, USD726313, USD619250, US9993424, US9937073, US9931349, US9750636, US9642795, US9427400, US9421126, US9333329, US9301920, US9289382, US9248136, US9180091, US9012434, US9006222, US8987238, US8987237, US8980304, US8939948, US8933059, US8846649, US8846648, US8784868,

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Abstract:

A composite vaginal ring containing a safe and effective amount of a pharmaceutically active medicament, which comprises:



25) Family number: 18031617 (US4678463A)

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Title: Devices for insertion into a body cavity of an animal and/or applicators therefor
Priority: NZ19840207341 19840301 CA19850475614 19850301
Family:

Publication number	Publication date	Application number	Application date
AU198539077 A1	19850905	AU19850039077	19850222
AU580582 B2	19890119	AU19850039077	19850222
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Probable Assignee: DEC RESEARCH

Assignee(s):(std): AHI OPERATIONS LIMITED ; AHI OPERATIONS LTD ; ALEX HARVEY IND LTD WAS AHI OPERATION ; ALEX HARVEY INDUSTRIES LIMITED ; HARVEY ALEX IND LTD ; CARTER HOLT HARVEY PLASTIC PRO ; MILLAR THOMAS D ; CARTER HOLT HARVEY PLASTIC PRODUCTS GROUP LIMITED ; NUOVA ZELANDA ; AHI OPERATIONS TE MANUKAU CITY NIEUW ZEELA LTD

Assignee(s): ALEX HARVEY IND ; ALEX HARVEY IND LTD ; DEC MANUFACTURING NZ ; MILLAR THOMAS D DECEASED ; DEC INT NZ LTD ; DEC MFG NZ ; CARTER HOLT HARVEY PLASTIC PRODUCTS GROUP LTD ; DEC NZ ; DEC RESEARCH ; DEC INT ; INTERAG ; ALEX HARVEY INDUSTRIES LTD FORMERLY AHI OPERATIONS LTD ; ALEX HARVEY INDUSTRIES LTD MANUKAU AUCKLAND NZ ; CARTER HOLT HARVEY LTD ; AHI OPERATIONS LTD MANUKAU CITY AUCKLAND NZ ; AHI OPERATIONS LIMITED TE MANUKAU CITY NIEUW ZEELA ; AHI OPERATIONS LIMITED TE MANUKAU CITY NIEUW ZEELAND

Inventor(s):(std): MILLAR T D ; THOMAS DOUGLAS MILLAR ; MILLER THOMAS DOUGLAS ; MILLAR THOMAS DOUGLAS ; MILLAR THOMAS D ; MILLAR TD

Inventor(s): DOUGLAS MILLAR THOMAS ; MILLAR THOMAS D DECEASED ; MILLAR THOMAS DOUGLAS HAMILTON NZ ; THOMAS DOUGLAS MILLER

Agent(s): GRIFFITH HACK; RICHES MCKENZIE AND HERBERT LLP

International class (IPC 8-9): A61D7/00 A61F6/14 A61K9/00 A61M31/00 (Advanced/Invention); A61D7/00 A61F6/00 A61K9/00 A61M31/00 (Core/Invention)

International class (IPC 1-7): A61D7/00 A61D7/02 A61F A61K47/00 A61K9/00 A61M31/00

CPC: A61D7/00 A61F6/144 A61K9/0036 A61M31/002

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US class: 128/130 128/832 128/840 424/430 604/285

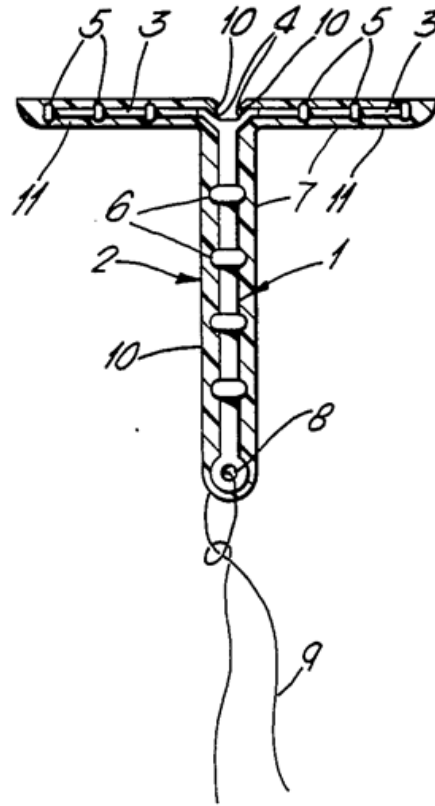
[Classification Explorer](#)

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Forward Citations: WO9949597, WO9943269, WO9940966, WO9853758, WO9833452, WO9007916, WO12087339, WO12087339, WO02062415, USRE35636, USD829390, US9884017, US9849142, US9812179, US9795564, US9713643, US9682021, US9675700, US9668972, US9668912, US9662298, US9636405, US9622947, US9586035, US9572775, US9561353, US9549898, US9539208, US9492412, US9439857, US9320705, US9265725, US9211259, US9167813, US9161916, US9114111, US9107816, US9101662, US9072667, US9050253, US9017312, US8992896, US8945516, US8900554, US8900553, US8871184, US8865139, US8840869, US8801694, US8795693, US8795635, US8760906, US8741265, US8722021, US8709385, US8703105, US8636982, US8618081, US8518378, US8518376, US8512718, US8486376, US8486375, US8486374, US8435498, US8362091, US8343945, US8182464, US8119150, US8119109, US8119106, US8114385, US7806878, US7666160, US6770288, US6759393, US6444224, US6423039, US6352524, US5830191, US5562677, US5494047, US5490843, US5433218, US5391156, US5370129, US5217450, US4807610, US2011060309, US2010152704, US2010003297, US2009149833, US2009105673, US2009105672, US2008161752, US2007202151, US2006051391, US2005021069, US10265404, US10238746, US10213512, US10213384, US10137200, US10137078, US10117812, US10092588, US10086080, US10029013, JP6317764, JP2016506772, GB2238725, GB2238725, FR2613942, EP1686935, EP1686935, EP0787427, EP0614605, EP0577400, DE3713404, AU734255, AU2002235050, AU2002235050,

Abstract:

A device for insertion into a body cavity of an animal and for producing a controlled rate of release of chemicals into the body of the animal, **has a spine with a body and legs hinged to the body, the spine being coated with a coating incorporating therein a material impregnated with one or more chemical impregnants which leach therefrom when exposed to body fluids, the legs being of a size foldable in a manner such that the cross sectional area and cross sections dimensions of the combined folded legs when in a folded position are substantially the same as the cross sectional area and dimensions of the body of the device.** An applicator is provided for inserting the device, the applicator having a shaft with a handle at one end and an open ended tube at the other end, the open ended tube having an open ended slot in the walls of said passageway with the open end of the slot at or near the open end of the tube and a discharging device comprising a rod having an operating member connected to the rod through a member which will enable the rod to be mounted within the open ended passageway with the operating member outside the tube so that on the device being fitted in a folded condition within the tube, the expelling device is operable to expel the device from the applicator after the applicator and device have been inserted in a body cavity of an animal.

**26) Family number: 29581620** (US2005171053A)

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Title:	CARRAGEENAN BASED ANTIMICROBIAL COMPOSITIONS			
Priority:	US20020376400P 20020430	CA20022384474 20020501	US20020377050P 20020501	
	WO2003US13456 20030430	US20040977001 20041029	US20040976975 20041029	
	US20070963104 20071221	US20090586219 20090918	US20090587405 20091006	
	EP20100762850 20101004	WO2010US51303 20101004	US20120562358 20120731	
	US20130759981 20130205	WO2014US14633 20140204		

Family:

Publication number	Publication date	Application number	Application date
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WO03093322 C2	20040708	WO2003US13456	20030430
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ZA201506509 A	20180131	ZA20150006509	20150904

Probable Assignee: FMC CORP

Assignee(s):(std): FMC CORP ; MAGUIRE ROBIN A ; MODLISZEWSKI JAMES J ; POPULATION COUNCIL INC ; THORN MITCHELL ; PHILLIPS DAVID M ; SEWALL CHRISTOPHER J ; MODLISZOWSKI JAMES J ; RUTENBERG NAOMI ; POP JULEJSHN KAUNSIL INK ; BALLARD ARTHUR D ; BLAKEMORE WILLIAM R ; BUBNIS WILLIAM A

Assignee(s): DZE POP JULEJSHN KAUNSIL INK ; POPULATION COUNCIL INC NEW YORK

Inventor(s):(std): BALLARD ARTHUR D ; BLAKEMORE WILLIAM R ; BUBNIS WILLIAM A ; MAGUIRE ROBIN A ; MODLISZEWSKI JAMES J ; PHILLIPS DAVID M ; SEWALL CHRISTOPHER J ; THORN MITCHELL ; MITCHELL THORN ; ZYDOWSKY THOMAS M ; UGAONKAR SHWETA ; SEIDOR SAMANTHA ; TORN MITCHELL ; THOMAS M ZYDOWSKY ; SHWETA UGAONKAR ; SAMANTHA SEIDOR ; NAOMI RUTENBERG ; MAGVAJR ROBIN A ; FILIPPS DEHVID M ; RUTENBERG NAOMI ; MODLISZOWSKI JAMES J

Inventor(s): MODLISZEWSKI JAMES ; ROBIN A MAGUIRE ; PHILLIPS DAVID ; MAGUIRE ROBIN ; JAMES J MODLISZEWSKI ; DAVID M PHILLIPS ; CHRISTOPHER J SEWALL ; BUBNIS WILLIAM ; BLAKEMORE WILLIAM ; BALLARD ARTHUR ; ARTHUR D BALLARD ; WILLIAM R BLAKEMORE ; WILLIAM A BUBNIS ; SEWALL CHRISTOPHER

Agent(s): PHILLIPS ORMONDE FITZPATRICK; FB RICE; FB RICE PTY LTD; MOFFAT AND CO; JUAN PABLO CADENA SARMIENTO; MAIWALD PATENTANWALTSGESELLSCHAFT MBH; MAIWALD WALTER; REGIMBEAU; MIR MIREIA; PATENT ADMINISTRATOR FMC CORP; LERNER DAVID LITTENBERG , KRUMHOLZ AND MENTLIK; LERNER DAVID LITTENBERG KRUMHOLZ AND MENTLIK; LERNER DAVID LITTENBERG KRUMHOLZ AND MENTLIK LLP; KRUMHOLZ ARNOLD H ET AL; KRUMHOLZ ARNOLD 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 YU ZA ZM ZW

International class (IPC 8-9): A01N43/04 A01N43/16 A01N59/16 A01N59/20 A61F13/00 A61F6/06 A61K A61K31/315 A61K31/44 A61K31/57 A61K31/70 A61K31/7072 A61K31/715 A61K31/731 A61K33/00 A61K33/30 A61K33/34 A61K33/38 A61K45/00 A61K45/06 A61K47/02 A61K47/12 A61K47/14 A61K47/36 A61K9/00 A61K9/08 A61M31/00 A61P15/02 A61P31/00 A61P31/04 A61P31/12 A61P31/18 A61P31/22 A61P43/00 C07H1/00 C08B37/00 C08L5/00 C08L5/12 (Advanced/Invention); A61P31/00 (Core/Invention); A61K (Subclass/Invention)

International class (IPC 1-7): A23L1/0532 A61F13/02 A61K31/715 A61K31/731 A61K35/80 A61K9/70 A61L15/44 A61P31/04 A61P31/12 A61P31/18 A61P31/22 C07H1/06 C07H1/08 C07H13/12 C07H5/04 C07H5/08 C08B37/00 C08B37/12

CPC: C08L5/00 A01N59/16 A61K31/57 A61K33/30 A61K33/34 A61K33/38 C08B37/0042 C08L5/12 A61K9/08 A61K9/0031 A61K9/0034 A61K45/06 A61K47/36 A61M31/00 A61K31/44 A61K31/715 A61K9/5138 A61K9/5146 A61K9/5153 A61K38/28 A61K38/29 A61K9/0036 A61K31/731 A61K38/095

European class: A01N59/16 A61K31/57 A61K31/715 A61K31/731 A61K33/30 A61K33/34 A61K33/38 A61K45/06 A61K47/36 A61K9/00M6 A61K9/00M8 A61K9/08 C08B37/00M4D C08L5/00 C08L5/12

US class: 424/430 424/433 424/434 424/618 424/618P 424/638 424/638S 424/641 424/641S 427/2.1 514/54 514/54P 514/54S 536/118 536/118S 536/123.1 536/123.100P 604/285

JP class F-Term: 4C076 4C076/AA12 4C076/BB29 4C076/BB30 4C076/BB31 4C076/DD21 4C076/DD41 4C076/DD43 4C076/DD44 4C076/FF39 4C076/FF61 4C084 4C084/AA19 4C084/MA02 4C084/NA14 4C084/ZA81 4C084/ZA82 4C084/ZB35 4C084/ZC75 4C086 4C086/AA01 4C086/AA02 4C086/BC17 4C086/EA26 4C086/MA02 4C086/MA03 4C086/MA04 4C086/MA05 4C086/MA17 4C086/MA56 4C086/MA60 4C086/MA63 4C086/NA14 4C086/ZA81 4C086/ZA82 4C086/ZB35 4C086/ZC75 4C201 4C206 4C206/AA01 4C206/AA02 4C206/BB02 4C206/KA15 4C206/MA03 4C206/MA05 4C206/MA37 4C206/NA14 4C206/ZA81 4C206/ZA82 4C206/ZB35 4C206/ZC75

JP class F-Index: A61K31/315 A61K31/44 A61K31/731 A61K45/00 A61K47/02 A61K47/12 A61K47/14 A61K9/08 A61P15/02 A61P31/04 A61P31/12 A61P43/00/121

[Classification Explorer](#)

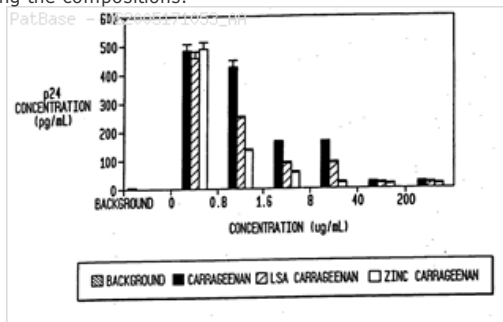
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Forward Citations: WO18049326, WO17139854, WO16056001, WO15116375, WO14123880, WO12024605, WO11044034, WO09144711, WO08067982, WO08067982, WO06112717, WO06112717, US9993399, US9763466, US9668966, US9597280, US9470676, US9205040, US9095733, US9095142, US9084740, US9084433, US8932652, US8927522, US8647635, US8580295, US8557249, US8541556, US8367098, US8298548, US8282969, US8277849, US8277836, US8252769, US2010256089, US2010040658, US2010015247,

US2009285850, US2009274736, US2008299147, US2008268022, US2007191303, US2007166797, US2007166266, US2005261240, US2005171053, US10231907, US10195169, US10143721, NO342681, EP2605779, EP2246062, EP1930015, EA015930, DE102005050729, CN106163539, CN105555281, CN102665677, CN102665677,

Abstract:

Disclosed are compositions for inhibiting transmission of a sexually transmitted infection that contain one or more carrageenans, including lambda carrageenan. Also disclosed are methods for making and using the compositions.



27) Family number: 32849624 (US2006116721A)

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Title: METHODS AND COMPOSITIONS FOR TREATING A DISEASE CONDITION IN A SUBJECT

Priority: US20040619158P 20041015 US20040630969P 20041124 US20050650192P 20050203
US20050251629 20051014 US20100886327 20100920 US20140300508 20140610

Family:	Publication number	Publication date	Application number	Application date
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	US2011029030 AA	20110203	US20100886327	20100920
	US2014350041 AA	20141127	US20140300508	20140610
	US8691877 BB	20140408	US20050251629	20051014
	US8788041 BB	20140722	US20100886327	20100920
	WO06044694 A2	20060427	WO2005US37068	20051014
	WO06044694 A3	20080103	WO2005US37068	20051014

Probable Assignee: PALO ALTO INVESTORS

Assignee(s):(std): LEE PATRICK Y ; LEE PATRICK YUARN BOR ; PALO ALTO INVESTORS ; YUN ANTHONY J ; YUN ANTHONY JOONKYOO

Inventor(s):(std): LEE PATRICK Y ; YUN ANTHONY JOONKYOO ; LEE PATRICK YUARN BOR ; YUN ANTHONY J

Inventor(s): YUN ANTHONY ; LEE PATRICK

Agent(s): BOZICEVIC FIELD AND FRANCIS LLP; BRET E

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 KM KP KR KZ LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

International class (IPC 8-9): A61B5/02 A61K31/137 A61K31/395 A61K31/4168 A61K31/4188 A61K31/475 A61K38/21 A61N1/00 A61N1/05 A61N1/18 A61N1/36 A61P9/12 (Advanced/Invention); A61B5/02 A61N1/00 (Core/Invention)

CPC: A61M2205/054 A61N1/3605 A61N1/05 A61N1/18 A61M5/14276 A61K31/475 A61K31/4188 A61K31/4168 A61K31/395 A61N1/36 A61N1/36117

European class: A61N1/36 A61N1/36E A61N1/36Z K61N1/36Z3J

US class: 424/85.5 424/85.500S 514/183 514/280 514/387 514/401 514/653 607/115 607/2 607/2P 607/3 607/3P 607/40 607/44

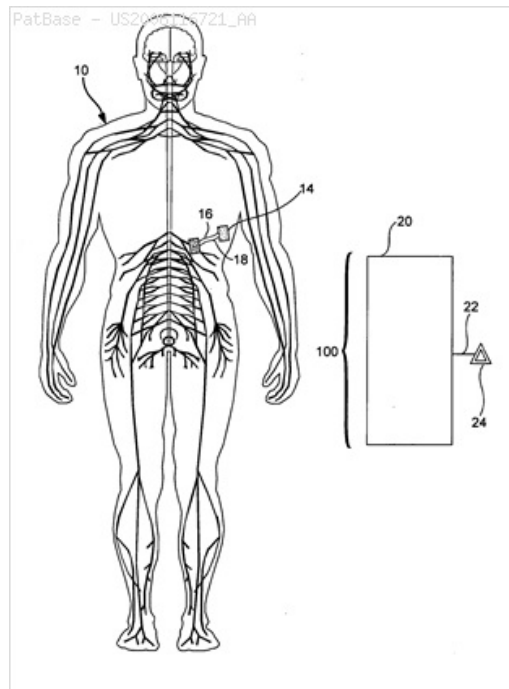
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Forward Citations: WO16134270, WO13134541, WO13134541, WO12102837, WO09060322, US9956408, US9913935, US9907887, US9821158, US9821003, US9820811, US9770291, US9744369, US9743845, US9687664, US9662507, US9630015, US9610457, US9583980, US9564777, US9554694, US9393353, US9375154, US9326887, US9320908, US9320894, US9295764, US9095719, US9011355, US8972019, US8909340, US8886325, US8781574, US8731665, US8676326, US8636721, US8571650, US8529542, US8494641, US8473062, US8447394, US8412336, US8361052, US8337475, US8235971, US8177772, US7682619, US7647101, US2017056661, US2017043163, US2015343212, US2014065129, US2010063564, US2009247983, US2009043270, US2007288070, US2007253981, US2007208382, US2007112327, US2006079853, US10265521, US10213532, US10201706, US10183165, US10086201, US10086197, US10039924, US10016600, KR101862903, EP3184141, EP3184141, EP2747691, EP2222363, CN103796604,

Abstract:

Methods for treating a disease condition in a subject are provided. The subject methods are characterizing by enhancing at least one symptom of the disease condition in a manner effective to cause the subject to mount a compensatory response effective to treat the disease condition. Also provided are compositions, kits and systems for practicing the subject methods.



28) Family number: 43001625 (US2009068118A)

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Title: DEVICE FOR DELIVERY OF A FOAMABLE COMPOSITION
Priority: US20070967411P 20070904 US20080204771 20080904
Family:

Publication number	Publication date	Application number	Application date
US2009068118 AA	20090312	US20080204771	20080904
US8617100 BB	20131231	US20080204771	20080904
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Probable Assignee: FOAMIX PHARMACEUTICALS LTD
Assignee(s):(std): HAZOT YOHAN ; SCHUZ DAVID ; SHIFRIN HELEN ; TAMARKIN DOV ; EINI MEIR ; FOAMIX LTD
Assignee(s): FOAMIX PHARMACEUTICALS LTD
Inventor(s):(std): TAMARKIN DOV ; SCHUZ DAVID ; HAZOT YOHAN ; EINI MEIR ; SHIFRIN HELEN
Agent(s): WILMERHALE/BOSTON; WILMERHALE BOSTON; FISH AND RICHARDSON PC
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 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

International class (IPC 8-9): A61K9/12 A61M1/06 A61M31/00 (Advanced/Invention); A61K9/12 A61M31/00 (Core/Invention)

CPC: A61M31/00

European class: A61M31/00

US class: 424/45 604/140 604/187 604/275 604/514 604/515 604/73

[Classification Explorer](#)

Cited documents: WO12007843, WO08041045, WO05102539, WO05018530, WO05011567, WO04037225 A2, WO03097002, WO03071995, WO03070301 A1, WO03013984, WO03000223, WO02062324, WO0185102 A2, WO0154679, USRE38964 E, US7654415 BB, US7497354 BB, US7455195 BB, US7226230 BB, US7222802 BB, US7195135 BA, US7137536 BB, US7021499 BB, US6968982 BA, US6843390 BA, US6834778 BB, US6691898 BB, US6672483 BA, US6544562 BB, US6364854 BA, US6341717 BB, US6308863 BA, US6299032 BA, US6299023 BA, US6190365 BA, US6189810 BA, US6186367 BA, US6116466 A, US6006948 A, US5951544 A, US5881493 A, US5865347 A, US5797955 A, US5788664 A, US5613623 A, US5611463 A, US5398846 A, US5346135 A, US5344051 A, US5301841 A, US5013297 A, US5007556 A, US4993496 A, US4902281 A, US4826048 A, US4792062 A, US4738396 A, US4603812 A, US4440320 A, US4329990 A, US4309995 A, US4226344 A, US4019657 A, US4018396 A, US3993224 A, US3952916 A, US3865275 A, US3841525 A, US3667461 A, US3563098 A, US3559890 A, US3540448 A, US3401849 A, US3377004 A, US3303970 A, US3301444 A, US3236457 A, US3154075 A, US3142420 A, US2767712 A, US2011214671 AA, US2007292355 AA, US2007069046 AA, US2007020304 AA, US2007009607 AA, US2006285912 AA, US2006269485 AA, US2006193789 AA, US2006114745 AA, US2006108377 AA, US2006054634 AA, US2006018937 AA, US2005285912 AA, US2005271596 AA, US2005268416 AA, US2005258189 AA, US2005255048 AA, US2005252995 AA, US2005232869 AA, US2005207837 AA, US2005205086 AA, US2005196414 AA, US2005085843 AA, US2005079139 AA, US2005054991 AA, US2004195276 AA, US2004161447 AA, US2004079361 AA, US2004072638 AA, US2003194379 AA, US2002153390 AA, US2002117516 AA, US2001027981 AA, US1666684 A, US1159250 A, RU2277501, JP9084855 A2, JP62241701, JP57209666, JP2010332456, JP2007155667, JP2006103799, JP2006036317, IL49491, GB998490, GB2406330, GB2367809, GB2206099, GB1201918, GB1162684, FR2848998, FR2845672, FR2843373, FR2833246, FR2814959, FR2793479, FR2789371, FR2640942, FR2591331, EP1537916,

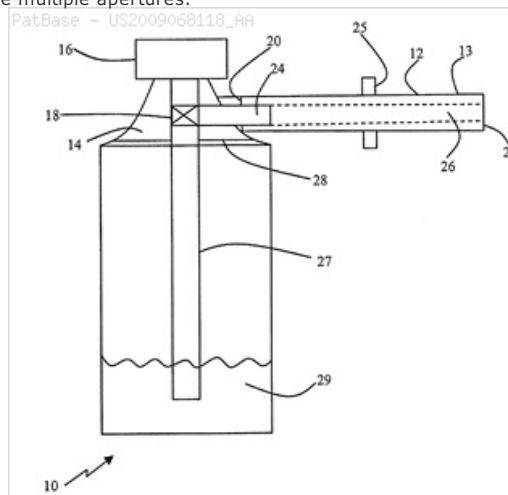
EP1375386, EP0757959, EP0662431, EP0528190, DE1882100 U, DE1882100, DE10009233, CH639913, CA2422244,

Forward Citations:

US9931349, US9919072, US9884017, US9855211, US9849142, US9795564, US9757397, US9737561, US9713643, US9682021, US9675700, US9668972, US9668909, US9662298, US9636405, US9622947, US9572775, US9549898, US9539208, US9526738, US9492412, US9439857, US9427605, US9402968, US9320705, US9301920, US9289382, US9265725, US9248136, US9211259, US9180091, US9167813, US9161916, US9101662, US9072667, US9050253, US9012434, US9006222, US8992896, US8987238, US8987237, US8945516, US8933059, US8900554, US8900553, US8871184, US8865139, US8846649, US8846648, US8840869, US8795693, US8795635, US8741265, US8722021, US8709385, US8703105, US8636982, US8633178, US8618081, US8518378, US8518376, US8512718, US8486376, US8486375, US8486374, US8435498, US8362091, US8343945, US8119150, US8119109, US8119106, US8114385, US7820145, US7704518, US7700076, US2014018775, US2013174474, US2011257632, US2009317338, US2006275218, US2005031547, US10265404, US10265334, US10258630, US10258564, US10238746, US10226483, US10213512, US10213384, US10206947, US10206932, US10137200, US10117812, US10092588, US10086080, US10052386, US10029013, CN103800997,

Abstract:

A device for delivery of a foamable composition to a body cavity includes a pressurized composition reservoir; a hollow body having a longitudinally extending wall and having at least one aperture provided through a wall of said body, the proximal end in fluid communication with the reservoir for receiving a foamable composition from said composition reservoir; and an actuator operatively connected to the composition reservoir for effecting release of a foamable composition from said composition reservoir into a body cavity through said hollow body; wherein said body has a length less than about 125 mm and internal diameter in the range of about 1.5 mm to about 3.5 mm, wherein said length and internal diameter are selected to provide a delivery of at least about 70 percent of the foamable composition during operation. The foam delivery device can have multiple apertures.



29) Family number: 49731627 (US2013045184A)

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Title:

BIOLOGIC FEMALE CONTRACEPTIVES

Priority:

US20100331892P	20100506	IL20100208820	20101019	AU20110249472	20110504
CN201180022904	20110504	EP20110777356	20110504	US20110256690	20110504
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Family:

Publication number	Publication date	Application number	Application date
AP201206598 A0	20121231	AP20120006598	20110504
AU20111249472 AA	20111110	AU20110249472	20110504
AU20111249472 BB	20151126	AU20110249472	20110504
AU2015252159 AA	20151126	AU20150252159	20151109
AU2015252159 BB	20170720	AU20150252159	20151109
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CA2797082 AA	20121022	CA20112797082	20110504
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CL52990 B	20160831	CL20120003105	20121106
CL52990 B	20160905	CL20120003105	20121106
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CO6640222 A2	20130322	CO20120207188	20121115
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EA201291177 A1	20130628	EA20120091177	20110504
EP2566490 A2	20130313	EP20110777356	20110504
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WO11138776 A3	20120329	WO2011IL00352	20110504
ZA201208328 A	20130731	ZA20120008328	20121106

Probable Assignee: HERVANA LTD

Assignee(s):(std): HERVANA LTD ; RACHEL TEITELBAUM ; TEITELBAUM RACHEL

Inventor(s):(std): TEITELBAUM RACHEL ; RACHEL TEITELBAUM ; TEITELBAUM RACHE

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; RICHES MCKENZIE AND HERBERT LLP; CLARKE MODET AND CO CHILE LIMITADA; DEHMEL ALBRECHT; GALLEGO JOSE FERNANDO; KOGA TETSUJI; AOKI ATSUSHI; FUKUMOTO TSUMORU; ISHIDA TAKASHI; TOLGA CAYLAK; WOLFF BREGMAN AND GOLLER

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

International class (IPC 8-9): A01N63/00 A61F6/06 A61K A61K35/74 A61K35/744 A61K35/747 A61K39/00 A61K39/395 A61K45/00 A61M31/00 A61P15/00 A61P15/16 A61P15/18 C07K16/18 C12N C12N1/20 C12N1/21 C12N15/09 C12N15/13 C12N15/63 C12R1/225 C12R1/245 (Advanced/Invention); A61F6/06 C12R1/225 C12R1/245 (Advanced/Non-invention); A61K39/00 A61K39/395 (Core/Invention); A61K C12N (Subclass/Invention)

CPC: A61K35/74 A61K35/747 A61K2039/505 C07K16/18 C07K2317/56 C07K2317/622 C07K2317/76 C07K2317/92 A61K39/395 C12N15/63 A61M31/00 A61M2210/1475 Y02A50/473

European class: A61K35/74 C07K16/18 K61K39/505 M07K317/560 M07K317/622 M07K317/760 M07K317/920

US class: 128/832 424/93.1 424/93.2 435/252.3 435/252.33 435/252.9

JP class F-Term: 4B024 4B024/AA01 4B024/BA61 4B024/CA01 4B024/CA04 4B024/CA09 4B024/CA11 4B024/CA20 4B024/DA06 4B024/DA07 4B024/EA04 4B024/GA11 4B024/HA01 4B024/HA11 4B065 4B065/AA01 4B065/AA30 4B065/AA90 4B065/AB01 4B065/AC14 4B065/BA01 4B065/CA24 4B065/CA44 4C087 4C087/AA01 4C087/AA02 4C087/BC56 4C087/CA12 4C087/MA13 4C087/MA28 4C087/MA31 4C087/NA14 4C087/ZA86 4C201 4B065/AC20 4B065/BA21 4C084 4C084/AA13 4C084/AA17 4C084/NA14 4C084/ZA86 4C084/ZB05 4C084/ZB08 4C085 4C085/AA13 4C085/AA14 4C085/CC26 4C085/DD62 4C085/EE01 4C085/GG01 4C087/AA03 4C087/BC30 4C087/BC34 4C087/BC55 4C087/CA22 4C087/ZB05 4C087/ZB08 4B064 4B064/AG27 4B064/CA02 4B064/CA19 4B064/CC24 4B064/DA01 4B065/AA94 4B065/BA02 4B065/CA25 4H045 4H045/AA10 4H045/AA11 4H045/AA30 4H045/BA10 4H045/CA40 4H045/DA76 4H045/DA86 4H045/EA20 4H045/EA34 4H045/FA73 4H045/FA74

JP class F-Index: A61K35/74/A A61K35/744 A61K35/747 A61P15/18 C12N1/21/ZNA C12N15/00/A A61K35/74/D A61K39/395/D A61K39/395/N A61K45/00 A61P15/16 C12N15/13 C07K16/18 C07K16/46 C12P21/08

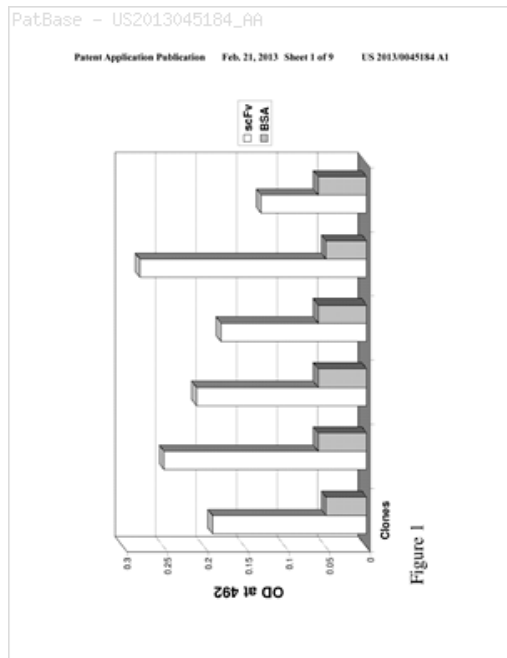
JP class Facet: ZNA

[Classification Explorer](#)

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Forward Citations: US9616114,

Abstract:
This invention provides, inter alia, commensal organisms engineered to express antibody fragments, which inhibit sperm motility or fertilization and compositions comprising the same. The present invention provides for the use of the engineered commensal organisms or compositions comprising the same as effective contraceptive means in females.



30) Family number: 49900637 (US2011271957A)

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Title: DELIVERY OF ESTROGEN AND BIOEQUIVALENTS THEREOF VIA THE PULMONARY TRACT

Priority: US20100331956P 20100506 US20110099426 20110503

Family:	Publication number	Publication date	Application number	Application date
	US2011271957 AA	20111110	US20110099426	20110503

Probable Assignee: BATTELLE MEMORIAL INST

Assignee(s):(std): BATTELLE MEMORIAL INST ; BATTELLE MEMORIAL INSTITUTE

Inventor(s):(std): CLINE DAVID ; MATIS ROBERT J ; MCVEETY BRUCE ; TRIPLETT II MICHAEL D

International class (IPC 8-9): A61M15/00 (Advanced/Invention)

CPC: A61K9/0078 A61K9/0009 A61K31/565 A61K31/57 A61K47/10 A61M11/001 A61M15/0065 A61M15/009 A61M2202/064

European class: A61K31/565 A61K31/57 A61K47/10 A61K9/00L8 A61K9/00M20B5 K61M15/00D K61M15/00P K61M202/06B

US class: 128/203.12 128/203.120P

[Classification Explorer](#)

Forward Citations: US9308295, US8859007,

Abstract:

The instant disclosure relates to methods of providing a composition containing estrogen or a biological equivalent thereof to a subject in need of such treatment, wherein a therapeutically effective amount of the estrogen or biological equivalent thereof is administered to the subject via inhalation of an electrohydrodynamic spray.

31) Family number: 45000692 (US2010152699A)

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Title: NANOCHANNELED DEVICE AND RELATED METHODS

Priority: US20080114687P 20081114 US20090168844P 20090413 CN200980154070 20091113
 US20090618233 20091113 WO2009US64376 20091113 US20100264069 20100413
 WO2010US30937 20100413 US20110264069 20111220 US20130875871 20130502
 US20130099429 20131206 US20150658561 20150316

Family:	Publication number	Publication date	Application number	Application date
	CA2743772 AA	20100520	CA20092743772	20091113
	CA2743772 C	20150630	CA20092743772	20091113
	CA2758317 AA	20111011	CA20102758317	20100413
	CA2758317 C	20180904	CA20102758317	20100413
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	CN104546669 B	20180105	CN201410773994	20091113
	EP2355864 A2	20110817	EP20090826831	20091113
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HK1164179 A1	20120921	HK20120104835	20120516
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HK1209626 B	20190111	HK20150110391	20151022
US2010152699 AA	20100617	US20090618233	20091113
US2012095443 AA	20120419	US20100264069	20100413
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US9526824 BB	20161227	US20130875871	20130502
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WO10056986 A8	20100805	WO2009US64376	20091113
WO10120817 A2	20101021	WO2010US30937	20100413
WO10120817 A3	20110421	WO2010US30937	20100413

Probable Assignee: BOARD OF UNIV OF TEXAS SYSTEM

Assignee(s):(std): BOARD OF UNIV OF TEXAS SYSTEM ; FERRARI MAURO ; FINE DANIEL ; GOODALL RANDY ; HOSALI SHARATH ; HUDSON LEE ; LIU XEUWU ; GRATTONI ALESSANDRO ; LIU XUEWU ; HUDON LEE ; MEDEMA RYAN ; UNIV OHIO STATE RES FOUND ; UNIV TEXAS ; OHIO STATE UNIV RESEARCH FOUNDATION ; BOARD OF REGENTS UNIV OF TEXAS SYSTEM ; SYSTEM BOARD OF UNIV OF TEXAS ; OHIO STATE UNIV RES FOUND

Assignee(s): BOARD OF UNIV OF TEXAS SY ; NANOMEDICAL SYSTEMS INC ; THE BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM ; THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION

Inventor(s):(std): FERRARI MAURO ; FERRARI MAURO M ; FINE DANIEL ; FINE DANIEL D ; GOODALL RANDY ; GOODALL RANDY R ; GRATTONI ALESSANDRO ; GRATTONI ALESSANDRO A ; GRATTONI ALESSNDRO ; HOSALI SHARATH ; HOSALI SHARATH S ; HUDON LEE ; HUDSON LEE ; HUDSON LEE L ; LIU XEUWU ; LIU XUEWU ; MEDEMA RYAN ; MEDEMA RYAN R

Agent(s): BORDEN LADNER GERVAIS LLP; NORTON ROSE CANADA SENCRL SRL LLP; NORTON ROSE FULBRIGHT CANADA LLP SENCRL SRL; BOESL RAPHAEL KONRAD; GRUENECKER KINKELDEY STOCKMAIR AND SCHWANHAEUSSER; CLT PATENT AND TRADEMARK HK LTD; FULBRIGHT AND JAWORSKI LLP; PARKER HIGHLANDER PLLC; SPENCE CHRIS W

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

International class (IPC 8-9): A61K A61K9/00 A61K9/16 A61K9/22 A61K9/48 A61K9/50 A61M A61M25/00 A61M31/00 A61M37/00 A61M5/00 A61M5/14 A61M5/142 A61P19/00 A61P19/02 B32B38/10 B81C B81C1/00 B82Y B82Y5/00 C23F1/00 F16L3/01 (Advanced/Invention); A61M5/142 (Advanced/Non-invention); A61M37/00 A61M5/00 A61M5/14 B32B38/10 C23F1/00 F16L3/01 (Core/Invention); A61K A61M B81C B82Y (Subclass/Invention)

CPC: A61M31/002 A61M2209/045 A61K9/0097 A61M5/14276 B81B2201/058 B81B2203/0338 B81C1/00119 B82Y5/00 A61M5/00 A61M37/00 Y10T137/8593 Y10T156/1064

European class: A61K9/00Z8 A61M31/00D A61M37/00 B81C1/00C2W B82Y5/00 K61K9/00Z8 K61M209/04F K61M5/142P10 L81B201/05Z L81B203/03G4

US class: 137/561.00RS 137/561R 156/257 156/257S 216/37 216/37S 216/83 604/246 604/264 604/288.01 604/288.010S 604/288.02 604/288.020S 604/43 604/500 604/500P 604/513 604/513P 604/891.1

[Classification Explorer](#)

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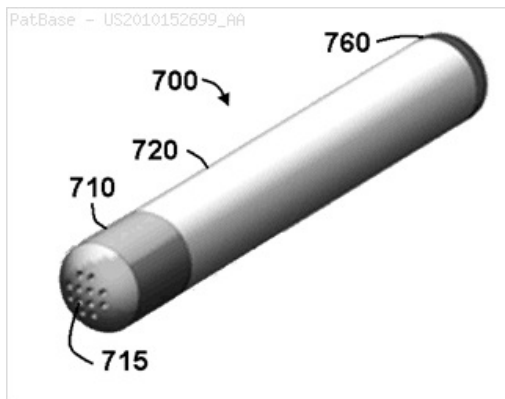
DE102006014476 B3

CN1585627 A,

Forward Citations: WO18067535, WO17218354, WO16187100, WO15023557, WO15017777, WO14036265, WO14036265, WO13112734, WO13063004, WO11146699, WO11146699, WO11146684, US9950125, US9867949, US9808582, US9750881, US9744302, US9737670, US9707354, US9691729, US9662229, US9629959, US9561333, US9555235, US9526824, US9486583, US9446195, US9393367, US9364611, US9364610, US9333309, US9305794, US9220660, US9180259, US9144648, US9079002, US9048327, US9005185, US8945063, US8915889, US8823114, US8632510, US8579865, US8480631, US2015287608, US2015088102, US2015032088, US2013131628, US2012199921, US2012187408, US10245178, US10206813, TWI525401, EP3033138, EP3033138, EP3027264, EP2574169, EP2574169, CN105744983, CN105530988, CN105413024,

Abstract:

A nanochannel delivery device and method of manufacturing and use. The nanochannel delivery device comprises an inlet, an outlet, and a nanochannel. The nanochannel may be oriented parallel to the primary plane of the nanochannel delivery device. The inlet and outlet may be in direct fluid communication with the nanochannel.

**32) Family number: 49916707** (US2011274740A)

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Title: METHODS OF REDUCING SYMPTOMS IN SUBJECTS USING SINGLE DOSAGE FORMS WITH TAPERING RELEASE RATES

Priority: US20100331775P 20100505 US20110101929 20110505 WO2011US35402 20110505

Family:

Publication number	Publication date	Application number	Application date
CA2798220 AA	20111110	CA20112798220	20110505
CN103154016 A	20130612	CN201180022325	20110505
EA201290972 A1	20130830	EA20120090972	20110505
EP2566877 A1	20130313	EP20110778372	20110505
EP2566877 A4	20131009	EP20110778372	20110505
HK1181395 A1	20131108	HK20130108854	20130729
IL222837 A0	20121231	IL20110222837	20110505
MX2012012695 A1	20130226	MX20120012695	20110505
US2011274740 AA	20111110	US20110101929	20110505
US9220692 BB	20151229	US20110101929	20110505
WO11140375 A1	20111110	WO2011US35402	20110505

Probable Assignee: TEVA PHARMA IND LTD

Assignee(s):(std): DILIBERTI CHARLES E ; MAHASHABDE ANU ; TEVA WOMENS HEALTH INC

Assignee(s): TEVA WOMEN'S HEALTH, INC. ; TEVA PHARMA IND LTD ; TEVA WOMEN S HEALTH INC

Inventor(s):(std): DILIBERTI CHARLES E ; MAHASHABDE ANU

Agent(s): GOUDREAU GAGE DUBUC; Fanelli Haag Kilger PLLC; SHANGHAI INTELLECTUAL PROPERTY OFFICE; FANELLI HAAG PLLC; WOODHOUSE SCOTT M

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

International class (IPC 8-9): A61F6/06 A61F6/08 A61K31/00 A61K31/137 A61K31/465 A61K31/515 A61K31/522 A61K31/551 A61K31/56 A61M31/00 A61M35/00 A61M37/00 A61P15/02 A61P25/30 A61P5/30 A61P5/34 C07J C07J71/00 (Advanced/Invention); A61M31/00 A61M37/00 (Advanced/Non-invention)

CPC: A61K31/00 A61K31/137 A61K31/465 A61K31/515 A61K31/522 A61K31/551 A61M31/002 A61M37/00

European class: A61K31/00 A61K31/137 A61K31/465 A61K31/515 A61K31/522 A61K31/551 K61M31/00D K61M37/00

US class: 1/1 424/430 424/430P 514/169 514/169S 514/221 514/221S 514/263.34 514/263.340S 514/270 514/270S 514/343 514/343S 514/648 514/648S 604/285 604/285S 604/307 604/307S

[Classification Explorer](#)

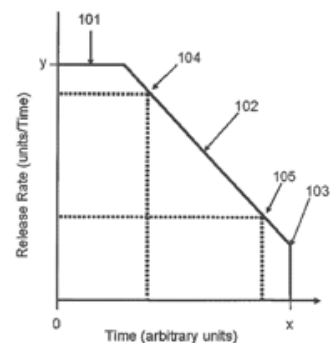
Cited documents: WO10019226 A1, WO06026844 A1, US6165497 A, US5788980 A, US5486362 A, US4822616 A, US2011182977 AA, US2010040671 AA, US2003216366 AA, RU2320331 C2, CN1397274 A,

Forward Citations: WO13090117, US9925199, US10111887,

Abstract:

The present invention is directed to methods of reducing symptoms associated with an abrupt reduction in an endogenous or exogenous chemical in subjects, the methods comprising: (a) administering to the subject a single dosage form comprising an active agent, wherein the release rate of the active agent from the single dosage form tapers throughout the administration; and (b) removing the single dosage form from the subjects after the release rate of the active agent is at or below a terminal symptom threshold level.

FIG. 1

**33) Family number: 48716713** (US2011087195A)

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Title: TRANSMUCOSAL DRUG DELIVERY DEVICE AND METHOD INCLUDING MICRONEEDLES**Priority:** US20090576075 20091008 EP20100187042 20101008

Family:	Publication number	Publication date	Application number	Application date
	DE602010002026 D1	20120823	DE201060002026T	20101008
	EP2308546 A1	20110413	EP20100187042	20101008
	EP2308546 B1	20120627	EP20100187042	20101008
	EP2308546 B8	20141015	EP20100187042	20101008
	JP2011078771 A2	20110421	JP20100225810	20101005
	JP5715369 B2	20150507	JP20100225810	20101005
	US2011087195 AA	20110414	US20090576075	20091008
	US9017310 BB	20150428	US20090576075	20091008

Probable Assignee: PALO ALTO RESEARCH CENTER INC**Assignee(s):(std):** PALO ALTO RES CT INC ; PALO ALTO RES INST INC ; PEETERS ERIC ; UHLAND SCOTT**Assignee(s):** PALO ALTO RESEARCH CENTER INC ; PALO ALTO RESEARCH CENTER INC PALO ALTO ; PALO ALTO RESEARCH INST INC**Inventor(s):(std):** PEETERS ERIC ; UHLAND SCOTT**Inventor(s):** PEETERS ERIC MOUNTAIN VIEW ; UHLAND SCOTT SAN JOSE**Agent(s):** GRUENECKER PATENT U RECHTSANWALTE PARTG MBB; JONES HELEN M M; JONES HELEN MM; SUTHERLAND ASBILL AND BRENNAN LLP**Designated states:** AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR**International class (IPC 8-9):** A61K38/00 A61K9/22 A61M31/00 A61M37/00 (Advanced/Invention)**CPC:** A61M37/0015 A61M2037/0023**European class:** A61M37/00M K61M37/00M1**US class:** 514/1.1 514/1.100S 514/169 514/169S 514/9.7 514/9.700S 604/131 604/131S 604/285 604/285S 604/514 604/514S 604/515 604/515P 604/890.1**JP class F-Term:** 4C066 4C066/AA01 4C066/AA02 4C066/AA04 4C066/AA06 4C066/BB05 4C066/CC01 4C066/DD11 4C066/EE06 4C066/FF04 4C066/GG01 4C066/HH01 4C066/JJ07 4C066/KK01 4C066/QQ83 4C066/QQ84 4C066/QQ92 4C167 4C167/AA71 4C167/BB12 4C167/BB42 4C167/CC25 4C167/EE08 4C267**JP class F-Index:** A61M31/00 A61M37/00/512[Classification Explorer](#)

Cited documents: WO9741831 A1, WO9418952 A1, WO9401165 A1, WO10048478 A2, WO09081411 A2, WO07140416 A2, WO07047811 A2, WO07041119 A1, WO05089728 A2, WO05056708 A2, WO04000389 A2, WO0112101 A1, US7732408 BB, US7497855 BB, US7486989 BB, US7083590 BA, US7004171 BB, US6978172 BB, US6835392 BB, US6805877 BB, US6776164 BB, US6756053 BB, US6743211 BA, US6638246 BA, US6591133 BA, US6532386 BB, US6450991 BA, US6444224 BA, US6423039 BA, US6352524 BA, US6322532 BA, US6183434 BA, US6139538 A, US6086909 A, US6030375 A, US5928195 A, US5816248 A, US5780058 A, US5593552 A, US5522804 A, US5415629 A, US5354264 A, US5318557 A, US5135499 A, US5112614 A, US5090963 A, US5062834 A, US5002540 A, US4902278 A, US4886514 A, US4687423 A, US4402695 A, US4308867 A, US4304232 A, US2011087195 AA, US2011087192 AA, US2011087155 AA, US2009306633 AA, US2009171315 AA, US2009131737 AA, US2008269666 AA, US2008262412 AA, US2008255543 AA, US2008255543, US2008242928 AA, US2008234546 AA, US2008171950 AA, US2008004596 AA, US2008004596, US2008004564 AA, US2007269385 AA, US2007225634 AA,

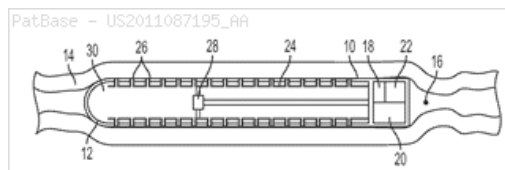
US2007038181 AA, US2007038181, US2006184092 AA, US2006024358 AA, US2005267440 AA, US2005244502 AA, US2005124875 AA, US2005054969 AA, US2004219192 AA, US2004087893 AA, US2004082937 AA, US2004059388 AA, US2003219472 AA, US2003130558 AA, US2003018295 AA, US2002010414 AA, JP2007160008 A2, JP2007160008, JP2006500973 T2, JP2006500973, JP2005124708 A2, JP2005124708, DE4130843 A1,

Forward Citations:

WO15069700, WO14210285, WO14051836, WO14051834, US9999720, US9962486, US9895521, US9801660, US9744341, US9717526, US9492396, US9297083, US9211377, US9204895, US9017310, US9014799, US9005108, US8926561, US8758323, US8298184, US8287495, US2016158515, US2014350514, US2013331792, US2013165772, US20111087155, US10258736, US09999720, JP6224716, JP2015536694, EP2900212, CN105451723,

Abstract:

Devices and methods for transmucosal drug delivery are provided. A device includes a housing configured for intraluminal deployment into a human or animal subject; a drug-dispensing portion which contains at least one drug; and a plurality of microneedles extending from the housing, the plurality of microneedles being configured to disrupt at least one region of a mucosal barrier adjacent the housing at a selected time after being intralumenally deployed in the human or animal subject. The device is operable to dispense the drug from the housing to a region of the mucosal barrier disrupted by the plurality of microneedles.



34) Family number: 50665742 (US2013220337A)

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Title:

DEVICES AND METHODS FOR INTRAVAGINAL DELIVERY OF DRUGS AND OTHER SUBSTANCES

Priority:

US20100375671P 20100820 US20110818067 20110819 WO2011US48453 20110819

Family:

Publication number	Publication date	Application number	Application date
BR112013003936 A2	20171114	BR20131103936	20110819
CA2844292 AA	20140205	CA20112844292	20110819
CN103327985 A	20130925	CN201180051016	20110819
EP2605779 A2	20130626	EP20110818839	20110819
EP2605779 A4	20150624	EP20110818839	20110819
IN02034DN2013 A	20141031	IN2013DN02034	20130306
KR20130091760 A	20130819	KR20137006527	20110819
MX2013002007 A1	20130517	MX20130002007	20110819
RU2013111303 A	20140927	RU20130111303	20110819
US2013220337 AA	20130829	US20110818067	20110819
WO12024605 A2	20120223	WO2011US48453	20110819
WO12024605 A3	20120426	WO2011US48453	20110819

Probable Assignee:

UNIV UTAH RES FOUND

Assignee(s):(std):

DAMIAN FESTO ; KISER PATRICK F ; O MEL VLAD G ; PRATHER LELAND J ; UNIV UTAH RES FOUND ; UNIV OF UTAH RESEARCH FOUNDATION

Assignee(s):

THE UNIVERSITY OF UTAH RESEARCH FOUNDATION ; OF UTAH RESEARCH FOUNDATION UNIV

Inventor(s):(std):

DAMIAN FESTO ; FESTO DAMIAN ; KISER PATRICK F ; LELAND J PRATHER ; MEL VLAD G O ; O MEL VLAD G ; PATRICK F KISER ; PRATHER LELAND J ; VLAD G O MEL

Inventor(s):

OMEL VLAD G

Agent(s):

BORDEN LADNER GERVAIS LLP; D ARCY JULIA; MEARA JOSEPH 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 QA 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

International class (IPC 8-9):

A61F6/06 A61F6/08 A61K31/496 A61K31/505 A61K31/567 A61K31/675 A61K31/737 A61K47/34 A61K47/36 A61K9/00 A61K9/14 A61K9/16 A61K9/20 A61L27/14 A61M31/00 (Advanced/Invention)

International class (IPC 1-7):

A61K31/737 A61K9/14

CPC:

A61F6/06 A61M31/002 A61F6/08 A61K9/0036 A61K9/1652 A61K9/205 A61K9/2054

European class:

A61F6/08 A61K9/00M8B A61K9/16H6F A61K9/20H6F A61K9/20H6F2 A61M31/00D

US class:

128/832 53/438 53/473 604/285

Classification Explorer

Cited documents:

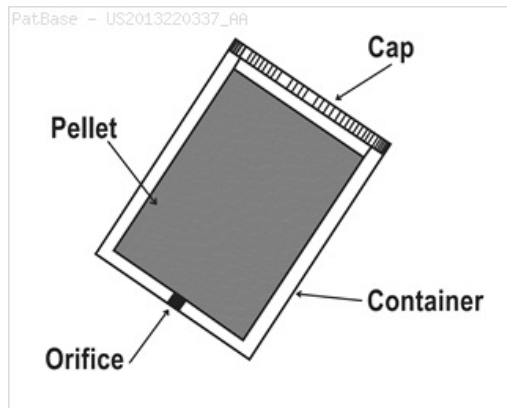
WO09094573 A2, US6210710 BA, US2009004281 AA, US2008268022 AA, US2008227749 AA, US2007043332 AA, US2005171053 AA, CN1822815 A,

Forward Citations:

WO16120402, WO14123880, CN106821585,

Abstract:

The present technology provides intravaginal devices designed to intravaginally deliver difficult to formulate water-soluble molecules and macromolecules for a sustained period of time. The devices include a chamber having at least one orifice and containing a sustained-release formulation. Such formulations include a water-swelling polymer and an intravaginally administrable substance. Methods of making and using the devices are also provided.



35) Family number: 48716744 (US2011087192A)

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Title: TRANSMUCOSAL DRUG DELIVERY DEVICE AND METHOD INCLUDING CHEMICAL PERMEATION ENHANCERS
Priority: US20090576087 20091008 EP20100187041 20101008 US20140537585 20141110

Publication number	Publication date	Application number	Application date
DE602010017654 D1	20140904	DE201060017654T	20101008
EP2308465 A2	20110413	EP20100187041	20101008
EP2308465 A3	20111221	EP20100187041	20101008
EP2308465 B1	20140723	EP20100187041	20101008
EP2308465 B8	20141119	EP20100187041	20101008
JP2011078770 A2	20110421	JP20100225809	20101005
JP5715368 B2	20150507	JP20100225809	20101005
US2011087192 AA	20110414	US20090576087	20091008
US2015065997 AA	20150305	US20140537585	20141110
US8882748 BB	20141111	US20090576087	20091008

Probable Assignee: PALO ALTO RESEARCH CENTER INC
Assignee(s):(std): FATAKDAWALA HUSSAIN ; PALO ALTO RES CT INC ; PALO ALTO RES INST INC ; UHLAND SCOTT ; PEETERS ERIC
Assignee(s): PALO ALTO RESEARCH CENTER INC ; PALO ALTO RESEARCH CENTER INC PALO ALTO ; PALO ALTO RESEARCH INST INC
Inventor(s):(std): UHLAND SCOTT ; PEETERS ERIC ; FATAKDAWALA HUSSAIN
Inventor(s): UHLAND SCOTT SAN JOSE ; PEETERS ERIC MOUNTAIN VIEW ; FATAKDAWALA HUSSAIN NORTH BRUNSWICK
Agent(s): JONES HELEN M M; JONES HELEN MM; SUTHERLAND ASBILL AND BRENNAN LLP
Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

International class (IPC 8-9): A61K31/045 A61K31/19 A61K31/23 A61K31/519 A61K31/52 A61K33/40 A61K38/02 A61K38/46 A61K9/00 A61K9/22 A61M31/00 (Advanced/Invention)

CPC: A61M31/002 A61K9/0036

European class: A61K9/00M8B A61M31/00D

US class: 424/616 424/616S 424/94.6 424/94.600S 514/1.1 514/1.100S 514/169 514/169S 514/20.1 514/20.100S 514/249 514/249S 514/262.1 514/262.100S 514/263.38 514/263.380S 514/552 514/552S 514/557 514/557S 514/738 514/738S 514/9.7 514/9.700S 604/131 604/131S 604/141 604/150 604/154 604/285 604/285S 604/514 604/514P 604/515 604/517 604/890.1 604/891.1

JP class F-Term: 4C066 4C066/AA02 4C066/AA04 4C066/AA05 4C066/AA06 4C066/BB05 4C066/CC01 4C066/DD12 4C066/EE06 4C066/EE19 4C066/FF02 4C066/GG12 4C066/HH02 4C066/KK14

JP class F-Index: A61M31/00

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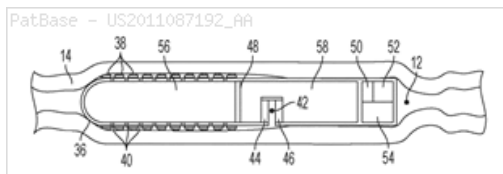
Cited documents: WO9741831 A1, WO9418952 A1, WO9401165 A1, WO09081411 A2, WO07140416 A2, WO07047811 A2, WO07041119 A1, WO05089728 A2, WO05056708 A2, WO0112101 A1, US7732408 BB, US7497855 BB, US7486989 BB, US7083590 BA, US7004171 BB, US6978172 BB, US6835392 BB, US6805877 BB, US6776164 BB, US6756053 BB, US6638246 BA, US6591133 BA, US6532386 BB, US6450991 BA, US6444224 BA, US6423039 BA, US6352524 BA, US6322532 BA, US6183434 BA, US6139538 A, US6086909 A, US6030375 A, US5928195 A, US5816248 A, US5780058 A, US5593552 A, US5522804 A, US5415629 A, US5354264 A, US5318557 A, US5135499 A, US5112614 A, US5090963 A, US5062834 A, US5002540 A, US4902278 A, US4687423 A, US4402695 A, US4308867 A, US4304232 A, US2010179646 AA, US2009306633 AA, US2009171315 AA, US2009131737 AA, US2008269666 AA, US2008262412 AA, US2008015494 AA, US2008004596 AA, US2008004564 AA, US2007269385 AA, US2007225634 AA, US2007225634, US2007173711 AA, US2007038181 AA, US2006184092 AA, US2006024358 AA, US2005267440 AA, US2005244502 AA, US2005196440 AA, US2005124875 AA, US2005054969 AA, US2004219192 AA, US2004087893 AA, US2004082937 AA, US2004059388 AA, US2003219472 AA, US2003130558 AA, US2003018295 AA, US2002010414 AA, JP2005124708 A2, JP2005124708, JP2003506192 T2, JP2003506192, DE4130843 A1,

Forward Citations: WO15069700, WO14051836, WO14051834, USD635816, US9999720, US9950125, US9931349, US9867949, US9839347, US9808582, US9801660, US9750881, US9744341, US9744302, US9737670, US9717526, US9707354, US9694163, US9629959, US9561333, US9560787, US9516995, US9510743, US9486583, US9446195, US9393367, US9364611, US9364610, US9333309, US9301920, US9297083, US9289382,

US9248266, US9248136, US9220660, US9204895, US9180259, US9180091, US9144648, US9114146, US9114145, US9017310, US9014799, US9012434, US9006222, US9005108, US8993549, US8993548, US8987238, US8987237, US8945063, US8933059, US8915889, US8579865, US8480631, US2018042471, US2016271375, US2016135671, US2015258315, US2015230700, US2015164309, US2014088486, US2014088346, US2013106347, US2011087195, US2011087155, US10258630, US10206932, US10052386, US10046143, US10016580, US09999720, JP6317764, JP6224716, JP2016506772, JP2015536694, EP2900212, CN104812371, CN104812371,

Abstract:

Devices and methods are provided for transmucosal drug delivery. The transmucosal drug delivery device may include a housing configured for intraluminal deployment, such as intravaginally, into a human or animal subject; a drug-dispensing portion which contains at least one drug, the drug-dispensing portion being configured to dispense the drug from the housing by positive displacement; and a permeability enhancer-dispensing portion configured to release or generate a permeability enhancing substance to disrupt at least one region of a mucosal barrier adjacent to the housing at a selected time while intralumenally deployed in the human or animal subject. The device may be operable to dispense the drug from the housing to a region of the mucosal barrier disrupted by the permeability enhancing substance.



36) Family number: 44246755 (US2010015200A)

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Title:	DRUG DELIVERY MEDICAL DEVICE		
Priority:	US20070912408P 20070417	US20070912394P 20070417	US20070981445P 20071019
	US20080045928P 20080417	US20080081691P 20080717	US20080104669P 20081010
	US20090162558P 20090323	US20090162569P 20090323	US20090165880P 20090401
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	US20090504597 20090716	WO2009US50883 20090716	US20090243955P 20090918
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	US20180960836 20180424		

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	CA2756307 AA	20110922	CA20102756307	20100322
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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

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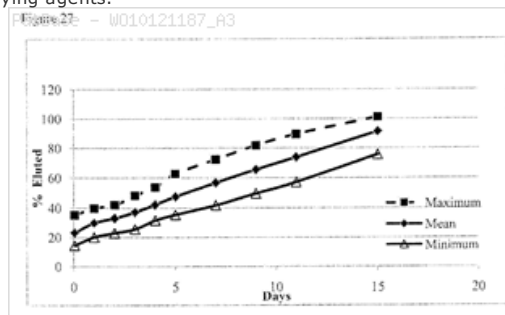
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US2003001830 AA, US2002151959 AA, US2002144757 AA, US2002133072 AA, US2002125860 AA, US2002111590 AA, US2002099332 AA, US2002091433 AA, US2002082680 AA, US2002051845 AA, US2002051485 AA, US2002007209 AA, US2002007049 AA, US2001049551 AA, US2001044629 AA, US2001037143 AA, US2001034336 AA, US2001026804 AA, OA2008148013, KR20040034064 A, KR101231197 B1, JP956807 A2, JP956807, JP9056807 A2, JP8206223 A2, JP698902, JP6218063 A2, JP6098902 A2, JP2010516307 T2, JP2010515539 T2, JP2010052503 A2, JP2009525768 T2, JP2009501566 T2, JP2009501566, JP2007517543 T2, JP2007502281 T2, JP2007502281, JP2007215620 A2, JP2006512175 T2, JP2006512175, JP2006506191 T2, JP2006506191, JP2005523332 T2, JP2005523332, JP2005523119 T2, JP2005523119, JP2005519080 T2, JP2005519080, JP2005505318 T2, JP2005505318, JP2005296690 A2, JP2004529674 T2, JP2004529674, JP2004528060 T2, JP2004528060, JP2004518458 T2, JP2004518458, JP2004512059 T2, JP2004512059, JP2004173770 A2, JP2003533493 T2, JP2003533493, JP2003533492 T2, 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CN106755095, CN106714847, CN106470712, CN106456557, CN106421933, CN106178120, CN105142719, CN105142719, CN104994891, CN104812395, CN104623740, CN104203169, CN104203169, CN104151452,

Forward Citations:

CN104093445, CN104093445, CN104083805, CN104083805, CN103913853, CN103249435, CN103249435, CN102908712, CN102908712, CN102552992, CN102552992, CN102228721, CN102188758, AU2015250122, AU2014265460, AU2014248508,

Abstract:

Provided is a coated implantable medical device, comprising: a substrate; and a coating disposed on said substrate, wherein said coating comprises at least one polymer and at least one pharmaceutical agent in a therapeutically desirable morphology and/or at least one active biological agent and optionally, one or more pharmaceutical carrying agents; wherein substantially all of pharmaceutical agent and/or active biological agent remains within said coating and on said substrate until the implantable device is deployed at an intervention site inside the body of a subject and wherein upon deployment of said medical device in the body of said subject a portion of said pharmaceutical agent and/or active biological agent is delivered at said intervention site along with at least a portion of said polymer and/or a at least a portion of said pharmaceutical carrying agents.



37) Family number: 51892766 (US2013345678A)

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Title: TREATMENT OF EXCESSIVE MENSTRUAL BLOOD LOSS BY FEMININE SANITARY PRODUCTS MEDICATED WITH ANTIFIBRINOLYTIC OR HEMOSTATIC AGENT

Priority: US20110448385P 20110302 WO2011US61684 20111121 US20130973337 20130822

Family:

Publication number	Publication date	Application number	Application date
DE202011110360 U1	20140220	DE201120110360U	20111121
US2013345678 AA	20131226	US20130973337	20130822
WO12118541 A1	20120907	WO2011US61684	20111121

Probable Assignee: ARSTAT INC

Assignee(s):(std): ARSTAT INC ; RUBIN ARKADY

Assignee(s): ARSTAT

Inventor(s):(std): RUBIN ARKADY

Agent(s): VAINBERG IRINA E 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 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 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

International class (IPC 8-9): A61F13/15 A61F13/20 A61F13/47 A61L15/44 A61L33/04 A61M31/00 (Advanced/Invention)

CPC: A61L15/44 A61L2300/418 A61K31/19 A61K31/195 A61K31/235 A61K31/505 A61K38/57 A61F13/2074 A61F13/84 A61F13/8405 A61F2013/00472 A61K9/0036 A61M31/002 A61F13/148 A61L2400/04

European class: A61F13/14D A61F13/20E A61F13/84 A61K9/00M8B K61F13/00L1H2 K61F13/84B

US class: 424/430 424/431 514/13.7 514/538 514/561 604/286 604/515

[Classification Explorer](#)

Cited documents: US6758840 BB, US6086909 A, US6059763 A, US5273521 A, US4318405 A, US3902493 A, US2009131890 AA, US2006287258 AA, US2004247639 AA, US2002049471 AA, JP2005029529 A2,

Forward Citations: US9757547, US2014329902, US2014030313, US10137221, US10137220, US10046150,

Abstract:

A method, medicated feminine sanitary products and compositions for reducing menstrual blood loss in a female are provided. The method comprises delivering an active agent to the uterine cavity by administering intravaginally to the female a therapeutically effective amount of the active agent on a medicated feminine sanitary product during menstrual bleeding, wherein the medicated feminine sanitary product is routinely utilized to absorb the menstrual flow, wherein the active agent is incorporated in the medicated feminine sanitary product as a pharmaceutically acceptable composition, the active agent is any of an antifibrinolytic and a hemostatic agent.

38) Family number: 30815806 (FR2258195A)

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Title: DRUG SUPPORTING ANCHOR - HAVING SPIRAL CONFIGURATION FOR INSERTION INTO BODY CAVITIES

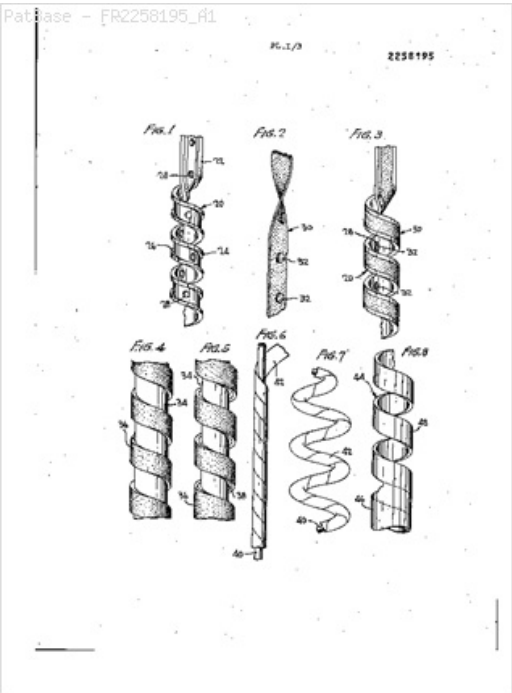
Priority: FR19740001622 19740117

Family:

Publication number	Publication date	Application number	Application date
FR2258195 A1	19750818	FR19740001622	19740117
FR2258195 B1	19781013	FR19740001622	19740117
OA4590 A	19800630	OA19740055104	19740122

Probable Assignee: ABBOTT LABORATORIES
Assignee(s):(std): ABBOTT LAB
Assignee(s): ABBOTT LABORATORIES ; ABBOT LABORATORIES US
International class (IPC 8-9): A61D7/00 A61M31/00 (Advanced/Invention);
A61D7/00 A61M31/00 (Core/Invention)
International class (IPC 1-7): A61D7/00 A61M31/00
CPC: A61D7/00 A61M31/002
European class: A61D7/00 A61M31/00D
[Classification Explorer](#)
Forward Citations: FR2475890, EP0388234,

Abstract:
A drug supporting anchor for insertion and retention in body cavities comprises an elongated member for supporting a drug to be administered, having a drug support surface with a spiral configuration.



39) Family number: 60549848 (US2017020718A)

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Title:
CONTRACEPTIVE AND RELATED DEVICE

Priority:
US20140973816P 20140401
US20150301281 20150401
WO2015US23958 20150401

Family:

Publication number	Publication date	Application number	Application date
CA2944436 AA	20160929	CA20152944436	20150401
CN106456838 A	20170222	CN201580025821	20150401
EP3125964 A1	20170208	EP20150774399	20150401
EP3125964 A4	20180228	EP20150774399	20150401
HK1233973 A1	20180209	HK20170107735	20170803
IN201617036424 A	20170324	IN201617036424	20161024
JP2017517288 T2	20170629	JP20160560390T	20150401
US2017020718 AA	20170126	US20150301281	20150401
WO15153817 A1	20151008	WO2015US23958	20150401

Probable Assignee:
POLY MED INC

Assignee(s):(std):
POLY MED INC

Assignee(s):
VAUGHN MICHAEL AARON ; GRAY KENNETH DAVID JR ; HILAS GEORGIOS THEOFANIS

Inventor(s):(std):
GRAY JR KENNETH DAVID ; GRAY KENNETH DAVID JR ; HILAS GEORGIOS THEOFANIS ; VAUGHN MICHAEL AARON

Inventor(s):
GARY KENNETH DAVID JR

Agent(s):
SMART AND BIGGAR; UEXKUELL AND STOLBERG; SPRUSON AND FERGUSON HONG KONG LTD; YAMASAKI KAZUO; NISHIJIMA TAKAKI; HAKODA ATSUSHI; HATTORI HIRONOBU; ICHIKAWA SATSUKI; ASAI KENJI; DESHIMARU TAKESHI; PARKER DAVID 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 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 TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

International class (IPC 8-9): A61F A61F2/04 A61F6/08 A61F6/14 A61K45/00 A61K47/12 A61K47/18 A61K47/26 A61K47/32 A61K47/34 A61K9/00 A61K9/16 A61L A61L27/54 A61M31/00 (Advanced/Invention)

CPC: A61F6/142 A61M31/002 A61K45/00 A61K47/34 A61K47/26 A61K47/12 A61K47/183 A61K47/32 A61K9/0036 A61K9/1635 A61K9/1647

US class: 128/832

JP class F-Term: 4C098 4C098/AA06 4C098/EE07 4C098/EE23

JP class F-Index: A61F6/08

[Classification Explorer](#)

Cited documents: WO13013172 A1, US8062658 BB, US6235313 BA, US2009246254 AA, US2008069850 AA, US2007243229 AA, US2005053639 AA, US2004265355 AA, JP9124817 A2, JP2013500334 T2, JP2010501265 T2, JP2008505718 T2, JP10510825 T2, CN103341175 A, CN102600001 A,

Abstract:
An intravaginal ring for the controlled release of at least one bioactive agent may further contain at least one of a non-bioabsorbable microparticulate ion-exchanging polymer, a fully bioabsorbable polymeric matrix, a biostable hydrophilic elastomeric polymeric matrix, a biostable amphiphilic elastomeric polymeric matrix, a biostable elastomeric polymeric matrix containing an inorganic microparticulate, and a biostable elastomeric porous polymeric matrix, each to aid in the release and/or modulate the release of the bioactive agent.

40) Family number: 49651889 (US2011236462A)

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Title: INTRAVAGINAL DRUG DELIVERY DEVICE

Priority: US20100318376P 20100328 US20110073899 20110328 WO2011US30222 20110328
US20170431005 20170213

Family:	Publication number	Publication date	Application number	Application date
	AU2011238710 AA	20111013	AU20110238710	20110328
	AU2011238710 BB	20150820	AU20110238710	20110328
	CA2798034 AA	20121030	CA20112798034	20110328
	CN103025320 A	20130403	CN201180021973	20110328
	EP2552426 A2	20130206	EP20110766436	20110328
	EP2552426 A4	20141217	EP20110766436	20110328
	JP2013523745 T2	20130617	JP20130502703T	20110328
	JP5813093 B2	20151117	JP20130502703T	20110328
	KR101828619 B1	20180212	KR20127028157	20110328
	KR20130067259 A	20130621	KR20127028157	20110328
	RU2012146080 A	20140510	RU20120146080	20110328
	RU2648827 C2	20180328	RU20120146080	20110328
	US2011236462 AA	20110929	US20110073899	20110328
	US2017319833 AA	20171109	US20170431005	20170213
	WO11126810 A2	20111013	WO2011US30222	20110328
	WO11126810 A3	20120223	WO2011US30222	20110328
	ZA201208185 A	20140326	ZA20120008185	20121029

Probable Assignee: EVESTRA INC

Assignee(s):(std): DINUNZIO JAMES ; DINUNZIO JIM ; EVESTRA INC ; EVESTRA INK ; OMELCZUK MARCELO ; ZHANG FENG ; NICKISCH KLAUS ; SHAKED ZE EV

Inventor(s):(std): DINUNZIO JAMES ; OMELCZUK MARCELO ; ZHANG FENG ; NICKISCH KLAUS ; SHAKED ZE EV ; DINUNZIO JIM ; SHEJKID ZE EV ; NIKKISH KLAUS ; DINUNTSIO DZHIM ; CHZHAN FYN ; OMELCHUK MARSELO

Inventor(s): SHAKED ZEEV ; SHAKED ZE'EV

Agent(s): GRIFFITH HACK ; GOUDREAU GAGE DUBUC ; LAVERY DE BILLY LLP; Watterson Peer Marten John; AOYAMA TAMOTSU; MATSUTANI MICHIKO; YAMADA TAKUJI; OOO YURIDICHESKAYA GORODISSKIY I PARTNER Y FA; MEYERTONS ERIC B

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

International class (IPC 8-9): A61F6/06 A61F6/08 A61F6/14 A61K A61K31/56 A61K31/567 A61K31/57 A61K45/00 A61K47/30 A61K47/32 A61K47/38 A61K47/46 A61K9/00 A61K9/70 A61M31/00 A61P A61P15/02 A61P15/18 A61P31/04 A61P31/10 A61P43/00 A61P5/24 (Advanced/Invention); A61K31/567 A61K31/57 (Advanced/Non-invention); A61K A61P (Subclass/Invention)

CPC: A61K9/0036 A61F6/08 A61K9/70 A61M31/002 A61K9/0039 A61F6/14 A61K31/57 A61K9/00 A61F6/06 A61K47/30 A61K2121/00 A61K31/567 A61K31/58 A61K45/06

European class: A61F6/08 A61K31/56 A61K9/00M8B A61K9/70

US class: 424/430 424/430S 424/432 424/432P 514/179 514/179S 514/182 514/182S

JP class F-Term: 4C076 4C076/AA36 4C076/BB30 4C076/CC30 4C076/EE25 4C076/EE56 4C084 4C084/AA20 4C084/MA02 4C084/MA34 4C084/MA56 4C084/NA13 4C084/ZB32 4C084/ZC03 4C084/ZC75 4C086 4C086/AA01 4C086/DA09 4C086/DA10 4C086/MA02 4C086/MA05 4C086/MA34 4C086/MA56 4C086/NA13 4C086/ZC11 4C086/ZC75 4C201

JP class F-Index: A61K31/567 A61K31/57 A61K45/00 A61K47/32 A61K47/38 A61K47/46 A61K9/00 A61P15/18 A61P31/10 A61P43/00/121

[Classification Explorer](#)

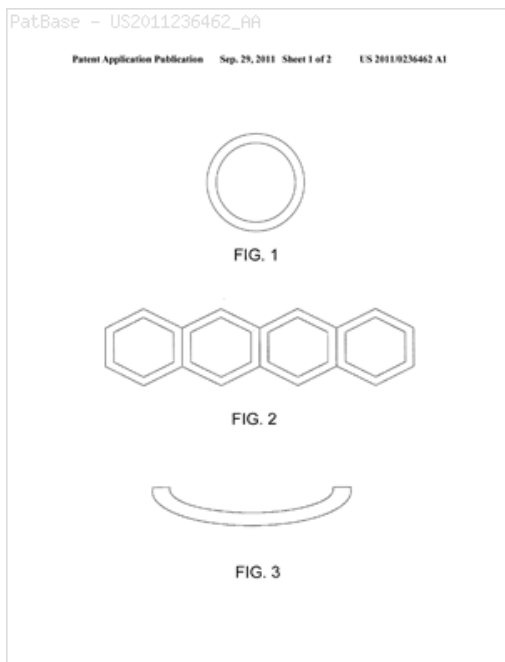
Cited documents: WO12024461 A2, WO10054296 A2, WO10019226 A1, WO10019226, WO09004246 A2, WO06028475 A1, WO06013851 A1, WO06013851, WO05089723 A1, WO05002482 A1, WO0137770 A1, US7045145 BA,

US6951654 BB, US6083916 A, US5989581 A, US5906830 A, US5814329 A, US5788980 A, US5562654 A, US5554603 A, US4968507 A, US4402695 A, US3995634 A, US3995633 A, US3948254 A, US3545439 A, US2011280922 AA, US2010040671 AA, US2010040671, US2009142313 AA, US2009004246 AA, US2007196433 AA, US2007196433, US2007141102 AA, US2006264912 AA, US2005118244 AA, RU2340344 C2, KR19980081290, JP9505802 T2, JP9505802, JP2012510828 T2, JP2012510828, JP2007525461 T2, JP2007525461, EP0876815 B1,

Forward Citations: US9427400, US8580294, US2014309598, US10137031, EP2982352, EP2982352,

Abstract:

Described herein is an intravaginal drug delivery system. In an embodiment the intravaginal drug delivery system includes a progestin and estrogen compound, and releases the active ingredients in a fixed physiological ratio over a prolonged period of time to produce a contraceptive state in a female.



41) Family number: 23341899 (US2003039679A)

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Title: Drug delivery system

Priority: NZ19980329799 19980213 NZ19980332795 19981113 NZ19990506120 19990209
WO1999NZ00016 19990209

Family:

Publication number	Publication date	Application number	Application date
AU199925538 A1	19990830	AU19990025538	19990209
AU741072 B2	20011122	AU19990025538	19990209
CA2320993 AA	20000811	CA19992320993	19990209
CA2320993 C	20080506	CA19992320993	19990209
DE69931354 D1	20060622	DE19996031354T	19990209
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DE69931354 T2	20070201	DE19996031354T	19990209
EP1061987 A1	20001227	EP19990905381	19990209
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EP1061987 B1	20060517	EP19990905381	19990209
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WO9940966 A1	19990819	WO1999NZ00016	19990209

Probable Assignee: VETOQUINOL USA INC

Assignee(s):(std): BIONICHE LIFE SCIENCES INC ; DUIRS GRAHAM FRANCOIS ; DUIRS LINDSAY ALISON ; GRAHAM FRANCOIS DUIRS ; LINDSAY ALISON DUIRS ; PFIZER PROD INC

Assignee(s): CAPITAL ROYALTY PARTNERS II CAYMAN LP ; PFIZER PRODUCTS INC ; PALADIN LABS INC ; VETOQUINOL USA INC ; LAURUS MASTER FUND LTD ; CAPITAL ROYALTY PARTNERS II LP ; CAPITAL ROYALTY PARTNERS II PARALLEL FUND A LP ; BIONICHE LIFE SCIENCES INC 231 DU ; BIONICHE LIFE SCIENCES INC BELLEVILLE ; CAPITAL ROYALTY PARTNERS II (CAYMAN) LP

Inventor(s):(std): DUIRS GRAHAM FRANCOIS ; GRAHAM FRANCOIS DUIRS ; LINDSAY ALISON DUIRS ; PFIZER PROUDUCTS INC ; DUIRS LINDSAY ALISON

Agent(s): MADDERN; MADDERNS PATENT AND TRADE MARK ATTORNEYS; MADDERNS PTY LTD; BERESKIN AND PARR; BERESKIN AND PARR LLP SENCRL SRL

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW

International class (IPC 8-9): A61D7/00 A61F6/08 A61K9/00 A61M31/00 (Advanced/Invention);
A61D7/00 A61F6/00 A61K9/00 A61M31/00 (Core/Invention)

International class (IPC 1-7): A61D7/00 A61F13/00 A61F6/08 A61K9/00 A61M31/00

CPC: A61D7/00 A61F6/08 A61K9/0036 A61M31/00

European class: A61D7/00 A61F6/08 A61K9/00M8B A61M31/00

US class: 424/422 424/433 424/438

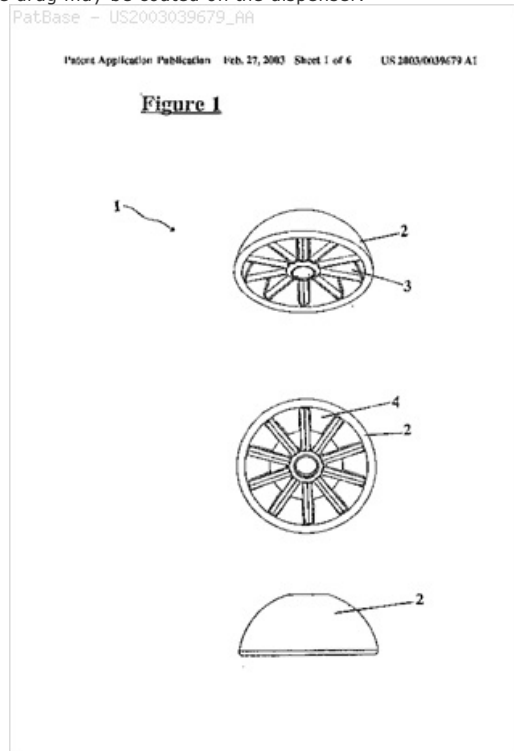
[Classification Explorer](#)

Cited documents: WO9715242 A1, WO9615724 A1, WO9315788 A1, WO8100356 A1, US5840055 A, US4988512 A, US3995633 A, US3920805 A, US3818911 A, US2170222 A, US2127094 A, GB2154875 A1, CH688984 A3, CH688984,

Forward Citations: USRE46363, USRE43834, USRE41956, US9827379, US9775954, US9623190, US9623189, US9610409, US9604009, US9604008, US9561331, US9533106, US9533105, US9526844, US9414864, US9408979, US9265893, US9233211, US9205197, US9192727, US9078712, US9028454, US9022991, US9011391, US8900204, US8641683, US8556864, US8361036, US8353878, US8333739, US8298194, US8267899, US8226618, US8206361, US8202256, US8197450, US7935088, US7918832, US7850662, US7241278, US6758840, US2011178474, US2010247600, US2010114025, US2010016806, US2009209920, US2009198193, US2009043264, US2008281275, US2008221530, US2008208142, US2008065026, US2007244445, US2007093761, US2005209570, US2005004529, US2004059299, US10245383,

Abstract:

A drug delivery device for delivering hormonal and other veterinary treatments intravaginally, vaginally. A substance dispenser (21) is separate from the supporting device (20). The dispenser is in the form of drug impregnated gills or vanes (6, 7). In other aspects the drug may be dispensed by a microneedle, pump in the supporting device or the drug may be coated on the dispenser.



42) Family number: 4276958 (US4629449A)

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Title: Vaginal dispenser for dispensing beneficial hormone
Priority: US19820402953 19820729 US19850714421 19850321 US19860895611 19860811
US19880242249 19880909

Family:	Publication number	Publication date	Application number	Application date
	US4629449 A	19861216	US19850714421	19850321
	US4961931 A	19901009	US19880242249	19880909

Probable Assignee: ALZA CORP

Assignee(s):(std): ALZA CORP

Assignee(s): ALZA A CORP OF CA CORP

Inventor(s):(std): WONG PATRICK S ; WONG PATRICK S L

International class (IPC 8-9): A61K9/00 A61M31/00 (Advanced/Invention);
A61K9/00 A61M31/00 (Core/Invention)

International class (IPC 1-7): A61K31/505 A61M31/00

CPC: A61K9/0036 A61M31/002

European class: A61K9/00M8B A61M31/00D

US class: 424/19 424/430 424/431 424/432 424/433 604/285 604/288 604/49 604/515 604/54 604/55 604/56

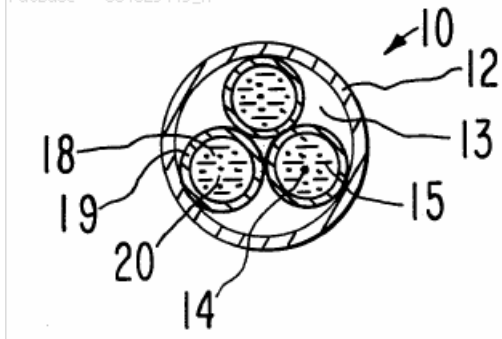
Cited documents: US4629449 A, US4596576 A, US4425339 A, US4402695 A, US4372951 A, US4326510 A, US4315925 A, US4292965 A, US4286587 A, US4285987 A, US4265236 A, US4256236 A, US4237885 A, US4215691 A, US4200098 A, US4198976 A, US4198634 A, US4155991 A, US4145416 A, US3995634 A, US3995633 A, US3991760 A, US3967618 A, US3938515 A, US3920805 A, US3911911 A, US3896819 A, US3828781 A, US3797492 A, US3733407 A, US3545439 A, EP0136011 A2,

Forward Citations: WO9740776, WO13092509, WO13010906, WO11067302, WO09094573, WO09094573, WO04096151, WO04096151, WO0177139, USD703319, US9937073, US9931349, US9789130, US9750636, US9642795, US9586035, US9566267, US9561353, US9421126, US9370574, US9301920, US9289382, US9283182, US9248136, US9180091, US9114111, US9107816, US9084717, US9060933, US9034365, US9017312, US9012434, US9006222, US8987238, US8987237, US8939948, US8933059, US8858977, US8846649, US8846648, US8801694, US8741329, US8715712, US8633178, US8580293, US8506988, US8404272, US8399013, US8333983, US8247393, US8217024, US8182464, US7988702, US7883718, US7838024, US7833545, US7829112, US7623924, US7378404, US7368495, US7187980, US7115678, US6939569, US6939558, US6869436, US6805877, US6671562, US6663608, US6593369, US6593313, US6559184, US6472434, US6469016, US6423039, US6414027, US6410595, US6361780, US6306841, US6294550, US6183461, US6139535, US6030375, US5988169, US5877216, US5861431, US5842476, US5816248, US5772606, US5582592, US5282829, US5181505, US5105827, US5002540, US4961931, US2016136402, US2014309598, US2013078286, US2011208135, US2011120475, US2011060309, US2010330138, US2010152704, US2010040671, US2010003297, US2009274654, US2009202612, US2009149833, US2009081278, US2009060982, US2008286339, US2008286322, US2008248017, US2008182829, US2008051377, US2007202151, US2007196433, US2007191321, US2006280771, US2006270640, US2006079943, US2005228444, US2005070516, US2005053639, US2005037033, US2005025847, US2005021009, US2004265355, US2003176405, US2003149439, US2003093136, US2002198303, US2002161352, US10258630, US10206932, US10137078, US10052386, US10004636, HR20020892, GB2328161, GB2328161, EP2606897, EP2555798, EP2546358, EP2283812, EP2138163, EP2138162, EP1795196, EP1539181, EP1480631, EP1272504, CN103585712,

Abstract:

The invention is for a method of treating a decrease in estrogen secretion in a woman after the cessation of cyclic ovulation using a vaginal dispenser comprising a wall surrounding an internal lumen and having a pair of ends with one end placed inside the other end to form a closed dispenser. A vaginally administrable beneficial agent is housed in the lumen for release by the dispenser over time.

PatBase - US4629449_A

**43) Family number: 56035961** (US2014088345A)

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Title: SINGLE CHANNEL, MULTIPLE DRUG DELIVERY DEVICE AND METHODS

Priority: US20120629124 20120927 US20180996349 20180601

Family:	Publication number	Publication date	Application number	Application date
	AR092581 AA	20150429	AR2013P103311	20130916
	US2014088345 AA	20140327	US20120629124	20120927
	US2018338904 AA	20181129	US20180996349	20180601
	WO14051834 A1	20140403	WO2013US51512	20130722

Probable Assignee: PALO ALTO RESEARCH CENTER INC

Assignee(s): INGURAN LLC ; PALO ALTO RES CENTER INC ; PALO ALTO RES CT INC ; PALO ALTO RES CT INCORPORAT

Assignee(s): COMPASS BANK ; PALO ALTO RESEARCH CENTER INCORPORAT ; PALO ALTO RESEARCH CENTER INC

Inventor(s): ABHISHEK RAMKUMAR ; CURLEY TIMOTHY J ; PEETERS ERIC ; UHLAND SCOTT A

Agent(s): KING KEVIN W 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 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 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

International class (IPC 8-9): A61B17/43 A61K9/00 A61M31/00 A61M5/00 (Advanced/Invention)

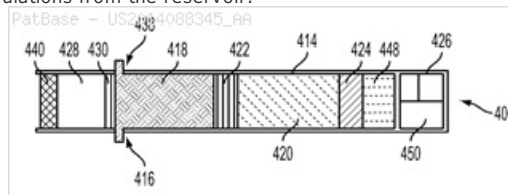
CPC: A61K9/0004 A61K9/0034 A61M31/002

US class: 600/35 604/131 604/500 604/93.01

Cited documents: WO9418952 A1, WO9401165 A1, WO10048478 A2, WO07140416 A2, WO07047811 A2, WO05056708 A2, US5928194 A, US5925030 A, US5891097 A, US5780058 A, US5391381 A, US5318539 A, US5162116 A, US4892778 A, US4336122 A, US4243030 A, US201213629184, US201213629159, US2011087195 AA, US2011087192 AA, US2011087155 AA, US2011066175 AA, US2009306633 AA, US2008188837 AA, US2008102119 AA, US2007073273 AA, US2006116641 AA, US2006024358 AA, US2003130558 AA,

Forward Citations: WO15069700, US9801660, US9717526, US9204895, EP3189819,**Abstract:**

Devices and methods are provided for drug delivery. The device may include a housing configured for intraluminal deployment into a human or animal subject and a reservoir contained within the housing and having an actuation end and a release end. The release end may include at least one outlet. A first drug formulation and a second drug formulation may be disposed within the reservoir and adjacent to each other and immiscible, or separated from each other by a first barrier. The device may also include a plug within the reservoir at the actuation end, the plug being movable toward the release end to drive the first and second drug formulations out of the reservoir. The device may also include an actuation system operably connected to the actuation end of the reservoir and configured to drive the plug toward the release end and release the drug formulations from the reservoir.

**44) Family number: 56035962** (US2014088346A)

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Title: MULTIPLE RESERVOIR DRUG DELIVERY DEVICE AND METHODS
Priority: US20120629159 20120927 CN201380061952 20130722 EP20130748135 20130722
 WO2013US51517 20130722 US20140577252 20141219 US20140577291 20141219

Family:	Publication number	Publication date	Application number	Application date
	AR092582 AA	20150429	AR2013P103312	20130916
	AU2013324282 AA	20140403	AU20130324282	20130722
	AU2013324282 BB	20180510	AU20130324282	20130722
	BR112015006804 A2	20170704	BR20151106804	20130722
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	CA2885891 C	20170912	CA20132885891	20130722
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	CN104812371 B	20170308	CN201380061952	20130722
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	IL237979 A0	20150531	IL20130237979	20130722
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	JP2015536694 T2	20151224	JP20150534483T	20130722
	JP6224716 B2	20171101	JP20150534483T	20130722
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	NZ706319 A	20171027	NZ20130706319	20130722
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	US2014088346 AA	20140327	US20120629159	20120927
	US2015105610 AA	20150416	US20140577252	20141219
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	US9204895 BB	20151208	US20140577252	20141219
	US9717526 BB	20170801	US20140577291	20141219
	WO14051835 A1	20140403	WO2013US51517	20130722

Probable Assignee: PALO ALTO RESEARCH CENTER INC**Assignee(s):(std):** PALO ALTO RES CT INCORPORAT ; PALO ALTO RES CT INC ; PALO ALTO RES CENTER INC**Assignee(s):** PALO ALTO RESEARCH CENTER INC PALO ALTO ; UHLAND SCOTT A ; SCOTT A UHLAND ; RAMKUMAR ABHISHEK ; TIMOTHY J CURLEY ; LINN FELICIA ; PEETERS ERIC ; ABHISHEK RAMKUMAR ; CURLEY TIMOTHY J ; ERIC PEETERS ; FELICIA LINN ; PALO ALTO RESEARCH CENTER INCORPORAT ; PALO ALTO RESEARCH CENTER INC**Inventor(s):(std):** CURLEY TIMOTHY J ; UHLAND SCOTT A ; PEETERS ERIC ; ABHISHEK RAMKUMAR ; LINN FELICIA ; F LIN ; ERIC PEETERS ; SCOTT A UHLAND ; TIMOTHY J CURLEY ; FELICIA LINN ; RAMKUMAR ABHISHEK ; LINN FELICI**Inventor(s):** TIMOTHYJ CURLEY ; UHLAND SCOTT A SAN JOSE ; ABHISHEK RAMKUMAR MOUNTAIN VIEW ; PEETERS ERIC MOUNTAIN VIEW ; CURLEY TIMOTHY J SAN CARLOS ; LINN FELICIA SAN JOSE**Agent(s):** DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SIM AND MCBURNEY; AIRD AND BERLIS IP PARTNERSHIP LTD; AIRD AND MCBURNEY LP; GRUENECKER PATENT U RECHTSANWAELTE PARTG MBB; GRUENECKER PATENT U RECHTSANWAELTE PARTG MBB; YKI PATENT ATTORNEYS; YKI INTELLECTUAL PROPERTY ATTORNEYS; SUTHERLAND ASBILL AND BRENNAN LLP; EVERSHEDS SUTHERLAND US LLP; KING KEVIN W 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 IS IT JP KE KG KM KN KP KR KZ LA LC LI LR 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**International class (IPC 8-9):** A61B17/43 A61D19/02 A61D7/00 A61K9/00 A61M A61M31/00 A61M5/00 A61M5/14 A61M5/145 A61M5/155 A61M5/168 (Advanced/Invention); A61M31/00 A61M5/142 (Advanced/Non-invention)

CPC: A61D7/00 A61K9/0034 A61K9/0004 A61M31/00 A61B17/43 A61M5/1408 A61M5/145 A61M5/155 A61M5/16827 A61M2005/14204 A61M2210/1042 A61M2210/1085 A61M2210/1433 A61M2210/1475 A61D19/024 A61D19/027 A61D19/02 A61M2210/0618

US class: 1/1 600/35 604/131 604/500 604/514 604/515 604/517

JP class F-Term: 4C066 4C066/AA01 4C066/AA02 4C066/AA04 4C066/AA06 4C066/BB05 4C066/CC09 4C066/DD12 4C066/DD13 4C066/FF10 4C066/HH03 4C066/QQ82 4C102

JP class F-Index: A61D19/02/Z A61D7/00/Z A61M31/00

[Classification Explorer](#)

Cited documents: WO9741831 A1, WO9418952 A1, WO9418952 A1, WO9401165 A1, WO9401165 A1, WO10048478 A2, WO10048478 A2, WO09081411 A2, WO07140416 A2, WO07140416 A2, WO07047811 A2, WO07047811 A2, WO07041119 A1, WO05089728 A2, WO05056708 A2, WO05056708 A2, WO0112101 A1, US7732408 BB, US7497855 BB, US7486989 BB, US7083590 BA, US7004171 BB, US6978172 BB, US6962579 BB, US6835392 BB, US6805877 BB, US6776164 BB, US6756053 BB, US6638246 BA, US6591133 BA, US6532386 BB, US6450991 BA, US6450991, US6444224 BA, US6423039 BA, US6352524 BA, US6322532 BA, US6183434 BA, US6139538 A, US6086909 A, US6030375 A, US5951538 A, US5928195 A, US5816248 A, US5780058 A, US5780058 A, US5593552 A, US5589457 A, US5522804 A, US5415629 A, US5354264 A, US5318557 A, US5135499 A, US5112614 A, US5090963 A, US5062834 A, US5002540 A, US4902278 A, US4886514 A, US4687423 A, US4608048 A, US4402695 A, US4308867 A, US4304232 A, US2014088486 AA, US2014088345 AA, US2013211372 AA, US2013211272 AA, US2012046518 AA, US2011087195 AA, US2011087195 AA, US2011087192 AA, US2011087155 AA, US2011087155 AA, US2009306633 AA, US2009171315 AA, US2009131737 AA, US2008269666 AA, US2008262412 AA, US2008004596 AA, US2008004564 AA, US2007269385 AA, US2007225634 AA, US2007038181 AA, US2006184092 AA, US2006024358 AA, US2006024358 AA, US2005267440 AA, US2005244502 AA, US2005124875 AA, US2005054969 AA, US2004219192 AA, US2004087893 AA, US2004082937 AA, US2004059388 AA, US2003219472 AA, US2003130558 AA, US2003130558 AA, US2003018295 AA, US2002045883 AA, US2002010414 AA, JP2011078771 A2, JP2011078771, JP2011078770 A2, JP2011078770, JP2009521296 T2, JP2009521296, DE4130843 A1, CN87202904 U, CN1191476 A, CN102641549 A, CN102641548 A, CN102641547 A, CN101453982 A, CN101107038 A,

Forward Citations: WO15069700, US9801660, US2016109435,

Abstract:
 Devices and methods are provided for drug delivery. The device may include a housing configured for intraluminal deployment into a human or animal subject and first and second reservoirs within the housing, each reservoir having an actuation end, an opposed release end, and a plug moveable from the actuation end toward the release end. First and second drug formulations may be contained in the first and second reservoirs, respectively. The device may also include one or more actuation systems configured to drive the first and second plugs so as to drive the first and second drug formulations from the first and second reservoirs. The housing may include a porous membrane sidewall in fluid communication with the release ends of the first and second reservoirs, the porous membrane sidewall being configured to distribute the first and second drug formulations driven from the first and second reservoirs.

