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- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

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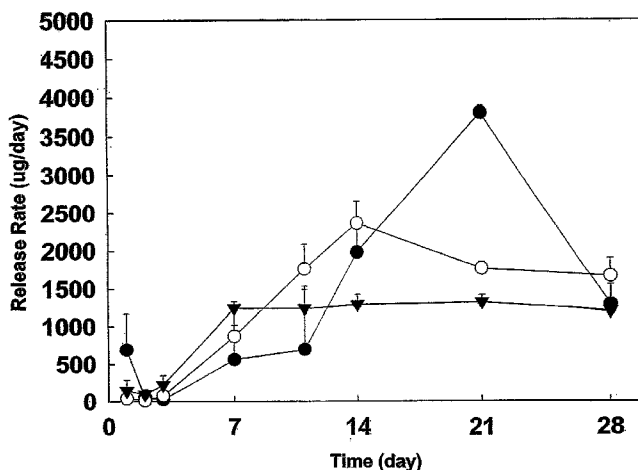
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(54) Title: DEVICES FOR DELIVERING AGENTS TO A VAGINAL TRACT



(57) Abstract: The present invention is directed to devices for delivering agents to a vaginal tract, a device of the invention comprises a non-porous polymeric material substantially impermeable to an environment of the vaginal tract, the non-porous polymeric material forming a closed envelope which forms an internal space, wherein the closed envelope contains two or more distinct apertures.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
A61K C07J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, EMBASE, COMPENDEX, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2005/004837 A1 (GALEN CHEMICALS LTD [IE]; MALCOLM KARL [GB]; WOOLFSON DAVID [GB]) 20 January 2005 (2005-01-20)	1-44, 54, 55, 57
Y	whole document, esp. claims, figures, examples, tables, pages 20/21, page 11, lines 26ff,	45-53, 56
Y	US 2004/191308 A1 (MOSACK LINDA [US]) 30 September 2004 (2004-09-30) Claims, examples	45-53, 56

Further documents are listed in the continuation of Box C.

See patent family annex.

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- * & * document member of the same patent family

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International application No

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	KANCHARLA V V ET AL: "FABRICATION OF BIODEGRADABLE POLYMERIC MICRO-DEVICES USING LASER MICROMACHINING" BIOMEDICAL MICRODEVICES, KLUWER, DORDRECHT,, NL, vol. 4, no. 2, May 2002 (2002-05), pages 105-109, XP008017522 ISSN: 1387-2176 4. Conclusions	45-53,56
Y	BUCKLER HELEN ET AL: "The effect of a novel vaginal ring delivering oestradiol acetate on climacteric symptoms in postmenopausal women." BJOG : AN INTERNATIONAL JOURNAL OF OBSTETRICS AND GYNAECOLOGY. AUG 2003, vol. 110, no. 8, August 2003 (2003-08), pages 753-759, XP002405626 ISSN: 1470-0328 whole document, esp. page 754-755	1-57
Y	WO 03/018026 A (PANTARHEI BIOSCIENCE B V [NL]; COELINGH BENNINK HERMAN JAN TI [NL]; BU) 6 March 2003 (2003-03-06) claims, esp. claim 15; page 1, second paragraph ff; example 8	1-57
Y	WO 01/13780 A2 (FEI TECHNOLOGIES INC [US]) 1 March 2001 (2001-03-01) examples, claims	5-15
A	WO 96/19196 A (GALEN CHEMICALS LTD [IE]; MCCLAY ALLEN [GB]) 27 June 1996 (1996-06-27) the whole document	1-57

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2006/003757

Patent document cited in search report	Publication date	Publication date	Patent family member(s)	Publication date
WO 2005004837	A1	20-01-2005	CA 2531640 A1 EP 1646363 A1	20-01-2005 19-04-2006
<hr/>				
US 2004191308	A1	30-09-2004	NONE	
<hr/>				
WO 03018026	A	06-03-2003	NONE	
<hr/>				
WO 0113780	A2	01-03-2001	AU 767720 B2 AU 7069000 A BR 0014146 A CA 2383027 A1 EP 1210040 A2 JP 2003507109 T MX PA02002069 A US 6264973 B1	20-11-2003 19-03-2001 26-11-2002 01-03-2001 05-06-2002 25-02-2003 20-08-2003 24-07-2001
<hr/>				
WO 9619196	A	27-06-1996	AR 002010 A1 AT 178204 T AU 692659 B2 AU 4399196 A CA 2207622 A1 CN 1170353 A DE 69508791 D1 DE 69508791 T2 DK 799025 T3 EP 0799025 A1 ES 2133841 T3 FI 972579 A GR 3030614 T3 IL 116433 A JP 10510825 T NO 972798 A NZ 298490 A TR 960575 A2 US 5855906 A	07-01-1998 15-04-1999 11-06-1998 10-07-1996 27-06-1996 14-01-1998 06-05-1999 02-12-1999 18-10-1999 08-10-1997 16-09-1999 17-06-1997 29-10-1999 10-02-2002 20-10-1998 19-08-1997 29-11-1999 21-07-1996 05-01-1999
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