

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
26 July 2007 (26.07.2007)

PCT

(10) International Publication Number
WO 2007/084587 A3

(51) International Patent Classification:

A61K 9/00 (2006.01) B65D 65/46 (2006.01)
A61K 9/70 (2006.01) B65D 85/808 (2006.01)

(21) International Application Number:

PCT/US2007/001284

(22) International Filing Date: 19 January 2007 (19.01.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/760,438 20 January 2006 (20.01.2006) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available):

AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available):

ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

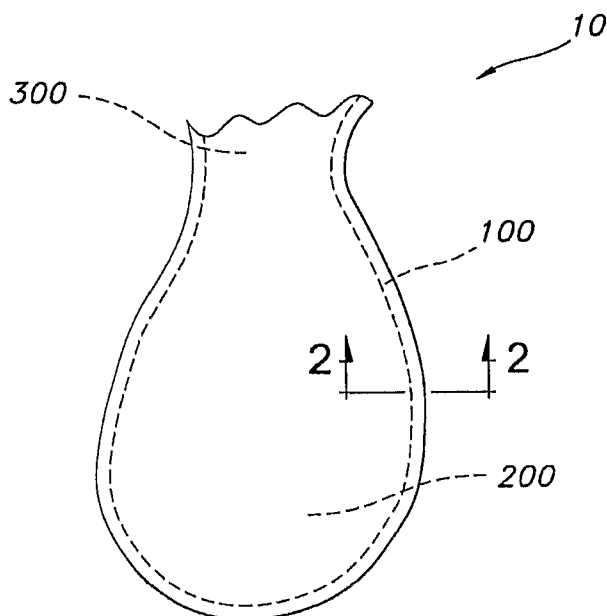
- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:

31 January 2008

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: FILM LINED POUCH AND METHOD OF MANUFACTURING THIS POUCH



(57) Abstract: The present invention relates to packaging in the form of a pouch, which may contain active substances, such as food products, pharmaceutical agents, nutraceuticals and cosmetic agents, or the like. More specifically, in some embodiments, the present invention provides a pouch, which includes at least one porous substrate encompassing a closed volume and at least one water-soluble film at least partially covering the at least one porous substrate. The pouch may contain an active substance within the closed volume, as well as an active substance in the water-soluble film. The present invention also relates to methods of making and using the pouches.

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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2007/001284

A. CLASSIFICATION OF SUBJECT MATTER

INV. A61K9/00 A61K9/70 B65D65/46 B65D85/808

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 B65D A24B

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/56904 A (J R CROMPTON LTD [GB]; ROSE JOHN EDWARD [GB]) 9 August 2001 (2001-08-09)	1-5, 20, 21
Y	page 5, line 4 - page 12, line 16; figures	6, 8, 31
A	-----	33, 34
X	WO 2006/004480 A (RADI MEDICAL SYSTEMS [SE]; MATHISEN TORBJOERN [SE]; ENGSTROEM THOMAS []) 12 January 2006 (2006-01-12)	1, 4, 9, 13, 17, 35, 37
Y	page 4, line 18 - page 7, line 10; claims; figures	10
Y	WO 96/15903 A (GRACE W R & CO [US]) 30 May 1996 (1996-05-30)	6, 8, 31
	page 4, line 16 - page 8, line 20; figures	
	----- -/--	

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Date of the actual completion of the international search

19 November 2007

Date of mailing of the international search report

05/12/2007

Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No

PCT/US2007/001284

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 0 450 141 A (NEOPHORE TECH INC [US] JANSSEN PHARMACEUTICA INC [US]) 9 October 1991 (1991-10-09) claims -----	8,10
A	EP 0 598 606 A (JOHNSON & JOHNSON CONSUMER [US]) 25 May 1994 (1994-05-25) claims -----	7
A	JP 04 073268 A (TOPPAN PRINTING CO LTD) 9 March 1992 (1992-03-09) -----	
A	JP 05 147140 A (MITSUBISHI RAYON CO) 15 June 1993 (1993-06-15) -----	
A	US 5 529 782 A (STAAB ROBERT [US]) 25 June 1996 (1996-06-25) -----	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2007/001284

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 0156904	A	09-08-2001	AU	3033201 A	14-08-2001
WO 2006004480	A	12-01-2006	EP	1765309 A1	28-03-2007
WO 9615903	A	30-05-1996	AR	000181 A1	21-05-1997
			AU	4232596 A	17-06-1996
EP 0450141	A	09-10-1991	CY	1923 A	07-03-1997
			DE	69019817 D1	06-07-1995
			DE	69019817 T2	05-10-1995
			DK	450141 T3	24-07-1995
			HK	118096 A	12-07-1996
			JP	3086837 A	11-04-1991
			JP	3303884 B2	22-07-2002
			NO	903542 A	15-02-1991
			US	5079018 A	07-01-1992
EP 0598606	A	25-05-1994	AT	181675 T	15-07-1999
			AU	679937 B2	17-07-1997
			AU	5070893 A	02-06-1994
			BR	9304760 A	14-06-1994
			CA	2103306 A1	19-05-1994
			CN	1098009 A	01-02-1995
			DE	69325495 D1	05-08-1999
			DE	69325495 T2	25-05-2000
			DK	598606 T3	22-11-1999
			ES	2132197 T3	16-08-1999
			GR	93100452 A	29-07-1994
			JP	3575817 B2	13-10-2004
			JP	6225932 A	16-08-1994
JP 4073268	A	09-03-1992	NONE		
JP 5147140	A	15-06-1993	NONE		
US 5529782	A	25-06-1996	NONE		