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(71) Applicant (for all designated States except US): **FOAMIX LTD.** [IL/IL]; Weizmann Science Park, 76124 Rehovot (IL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **FRIEDMAN, Doron** [IL/IL]; 33 Alon Street, Karnei Yosef (IL). **BESONOV, Alex** [IL/IL]; Goldberg 1, 76283 Rehovot (IL). **TAMARKIN, Dov** [IL/IL]; 537 Har Hila Street, 71908 Maccabim (IL). **EINI, Meir** [IL/IL]; Hashaked Street 2, 74104 Ness Zion (IL).

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(54) Title: VASOACTIVE KIT AND COMPOSITION AND USES THEREOF

(57) Abstract: The present invention relates to a therapeutic kit to provide a safe and effective dosage of a vasoactive agent, including an aerosol packaging assembly including: a container accommodating a pressurized product; and an outlet capable of releasing the pressurized product as a foam, wherein the pressurized product comprises a foamable composition including: a vasoactive agent; at least one organic carrier selected from the group consisting of a hydrophobic organic carrier, an organic polar solvent, an emollient and mixtures thereof, at a concentration of about 2% to about 50% by weight, a surface-active agent, about 0.01% to about 5% by weight of at least one polymeric additive selected from the group consisting of a bioadhesive agent, a gelling agent, a film forming agent and a phase change agent, water; and liquefied or compressed gas propellant at a concentration of about 3% to about 25% by weight of the total composition.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

INV. A61K9/12 B65D83/14 A61K9/00 — A61K8/04 A61M11/02
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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

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 2004/037225 A (FOAMIX LTD [IL]; TAMARKIN DOV [IL]; FRIEDMAN DORON [IL]; EINI MEIR [IL] 6 May 2004 (2004-05-06) the whole document	1-62
X	US 2005/031547 A1 (TAMARKIN DOV [IL] ET AL) 10 February 2005 (2005-02-10) paragraph [0157]; claims 1,36,52-61,67	1-62
X	WO 00/15193 A (SOLTEC RES PTY LTD [AU]; ABRAM ALBERT ZORKO [AU]) 23 March 2000 (2000-03-23) page 2, lines 25-31; claims 1,2,5,9,10,16-18	1-62

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Rauter, Anton

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 2004037225	A	06-05-2004	AU 2003279493 A1	13-05-2004
			BR 0314916 A	16-08-2005
			CA 2502986 A1	06-05-2004
			EP 1556009 A2	27-07-2005
			JP 2006505583 T	16-02-2006
			KR 20050083826 A	26-08-2005
			MX PA05004278 A	05-10-2005
			NZ 540166 A	29-06-2007
US 2005031547	A1	10-02-2005	US 2007280891 A1	06-12-2007
WO 0015193	A	23-03-2000	BR 9913154 A	15-05-2001
			CA 2333869 A1	23-03-2000
			EP 1112062 A1	04-07-2001
			JP 2002524490 T	06-08-2002
			NZ 508259 A	28-11-2003
			US 6730288 B1	04-05-2004