

Title (en)
PRESSURE WAVES MASSAGE APPARATUS

Title (de)
DRUCKWELLENMASSAGEGERÄT

Title (fr)
APPAREIL DE MASSAGE À ONDES DE PRESSION

Publication
EP 3228297 B1 20190717 (DE)

Application
EP 16192449 A 20161005

Priority
• DE 102016106120 A 20160404
• EP 16169444 A 20160512

Abstract (en)
[origin: MX2016015501A] A compression wave massage device for body parts is described, particularly for erogenous zones such as the clitoris, comprising a pressure field generation device and a drive device. The pressure field generation device has at least one cavity with a first end and a second end, located opposite the first end and distanced from said first end, with the first end being provided with at least one opening for placement on a body part. The drive device causes a change of the volume of at least one cavity between a minimal volume and a maximal volume such that in at least one opening a stimulating pressure field is generated. The cavity is formed by a single chamber, and the ratio of the volume change to the minimal volume is not below 1/10, preferably not below 1/8..

IPC 8 full level
A61H 19/00 (2006.01); **A61H 9/00** (2006.01)

CPC (source: BR CN EP RU US)
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Citation (examination)
• US 2004102822 A1 20040527 - COHN SALOMON [US]
• US 2008275386 A1 20081106 - MYERS KENNETH E [US]
• US 6733438 B1 20040511 - DANN JEFFREY [US], et al
• WO 2014081600 A1 20140530 - EXPLORAMED NC6 LLC [US]
• US 2008304984 A1 20081211 - CHAN MAN-YAN [CN]
• CN 2153351 Y 19940119 - GUAN CHENGXIAO [CN]

Citation (opposition)
Opponent : Fun Factory GmbH
• US 5377701 A 19950103 - FANG CUNYUN [CN]
• US 3818904 A 19740625 - KAWADA S
• CH 329193 A 19580415 - FUCHS MAURICE DR MED [CH]
• US 1882040 A 19321011 - ROEHM WILLIAM A
• WO 2015039787 A1 20150326 - NOVOLUTO GMBH [DE]
• US 2004102822 A1 20040527 - COHN SALOMON [US]
• US 2008275386 A1 20081106 - MYERS KENNETH E [US]
• US 6733438 B1 20040511 - DANN JEFFREY [US], et al
• WO 2014081600 A1 20140530 - EXPLORAMED NC6 LLC [US]
• US 2008304984 A1 20081211 - CHAN MAN-YAN [CN]
• CN 2153351 Y 19940119 - GUAN CHENGXIAO [CN]
• FR 2746639 A1 19971003 - GREA ALAIN [FR]
• WO 2006058291 A2 20060601 - DRYSDALE JOANNE [US]
• DE 202012005414 U1 20120621 - BIERSCHEK FRANK [DE]
• EP 0365230 A2 19900425 - KANEBO LTD [JP], et al
• US 2010106064 A1 20100429 - KREINDEL MICHAEL [CA], et al
• WO 2013178223 A2 20131205 - BIERSCHEK FRANK [DE]
• DE 202005004843 U1 20050714 - MERLAKU KASTRIOT [DE]
• US 6099463 A 20000808 - HOCKHALTER ROBERT [US]
• DE 20112384 U1 20011031 - W & W FRENKEL GMBH & CO KG [DE]
• DE 9309994 U1 19931007 - LENKE MICHAEL [DE]
• US 1730535 A 19291008 - RUDOLPH ALFRED P
• DE 124218 C

Opponent : LELO EUROPE GMBH

• US 7670280 B2 20100302 - GLOTH DAVID [US]
• US 2005203446 A1 20050915 - TAKASHIMA MITSURU [JP]
• US 8784297 B2 20140722 - MERTENS JANE U [US], et al
• US 6464653 B1 20021015 - HOVLAND CLAIRE T [US], et al

Opponent : LELO EUROPE GmbH

• DE 102013110501 A1 20150326 - NOVOLUTO GMBH [DE]
• US 1882040 A 19321011 - ROEHM WILLIAM A
• US 1042058 A 19121022 - HOOK KATE VAN [US]
• US 6733438 B1 20040511 - DANN JEFFREY [US], et al
• WO 2014081600 A1 20140530 - EXPLORAMED NC6 LLC [US]
• US 2008275386 A1 20081106 - MYERS KENNETH E [US]
• DE 278733 C
• US 5377701 A 19950103 - FANG CUNYUN [CN]
• ANONYMOUS: "Druckwelle", WIKIPEDIA, 22 December 2019 (2019-12-22), pages 1 - 3, XP055744477

- ANONYMOUS: "Wikipedia-Auszug zu Stetige Funktion", WILIPEDIA, 26 February 2020 (2020-02-26), pages 1 - 35, XP055744479
- ANONYMOUS: "Fluchtung", WIKIPEDIA, 15 December 2019 (2019-12-15), pages 1 - 6, XP055744485, [retrieved on 20201027]
- ANONYMOUS: "Membran", WIKIPEDIA, 5 July 2018 (2018-07-05), pages 1 - 2, XP055640662, [retrieved on 20191108]
- ANONYMOUS: "Rohr (technik)", WIKIPEDIA, 11 February 2020 (2020-02-11), pages 1 - 16, XP055744487, [retrieved on 20201027]
- ANONYMOUS: "Modulation (Technik)", WIKIPEDIA, 10 August 2011 (2011-08-10), XP055655283, Retrieved from the Internet <URL:https://de.wikipedia.org/w/index.php?title=Modulation_(Technik)&oldid=92260408> [retrieved on 20200107]

Opponent : Love Digital Factory Spain, S.L.

JP 2011083423 A 20110428 - PANASONIC ELEC WORKS CO LTD

Cited by

EP3925588A1; US11596574B2; WO2022038168A1; WO2021250126A2; WO2019007988A3; WO2024069008A1; DE102023100342A1; WO2023006771A1; WO2023099596A1; WO2022122810A1; EP4349313A1

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DOCDB simple family (application)

EP 16192449 A 20161005; AU 2016208327 A 20160727; AU 2018200317 A 20180115; BR 102016023617 A 20161010; CA 2943097 A 20160922; CN 201610815842 A 20160909; CN 202210560859 A 20160909; CY 191101029 T 20191003; DE 202016008414 U 20161005; DE 202016008435 U 20161005; DK 16192449 T 20161005; DK 19173156 T 20161005; EP 19173156 A 20161005; EP 2017058032 W 20170404; EP 21209414 A 20161005; EP 23216269 A 20161005; ES 16192449 T 20161005; ES 19173156 T 20161005; HR P20191699 T 20190919; HR P20220321 T 20161005; HU E16192449 A 20161005; HU E19173156 A 20161005; JP 2017061403 A 20170327; JP 2021025572 A 20210219; LT 16192449 T 20161005; MX 2016015501 A 20161125; PL 16192449 T 20161005; PL 19173156 T 20161005; PT 16192449 T 20161005; RS P20191283 A 20161005; RS P20220159 A 20161005; RU 2016150905 A 20161223; SI 201630431 T 20161005; US 201615260947 A 20160909; US 202217719802 A 20220413; ZA 201700224 A 20170111