

(12) International Application Status Report

Received at International Bureau: 08 February 2018 (08.02.2018)

Information valid as of: 14 August 2019 (14.08.2019)

Report generated on: 24 January 2021 (24.01.2021)

(10) Publication number:

WO2019/059467

(43) Publication date:

28 March 2019 (28.03.2019)

(26) Publication language:

Korean (KO)

(21) Application Number:

PCT/KR2018/001433

(22) Filing Date:

02 February 2018 (02.02.2018)

(25) Filing language:

Korean (KO)

(31) Priority number(s):

10-2017-0122038 (KR)

(31) Priority date(s):

21 September 2017 (21.09.2017)

(31) Priority status:

Priority document received (in compliance with PCT Rule 17.1)

(51) International Patent Classification:

B65D 1/08 (2006.01); **B65D 47/18** (2006.01); **B65D 1/32** (2006.01)

(71) Applicant(s):

IPACK CO., LTD. [KR/KR]; 28, Yongjeonggyeongje-ro 1-gil, Gunnae-myeon, Pocheon-si, Gyeonggi-do 11154 (KR) (*for all designated states*)

(72) Inventor(s):

LIM, Jong Su; 102-1603, 239, Taebong-ro, Soheul-eup, Pocheon-si, Gyeonggi-do 11173 (KR)

(74) Agent(s):

WELL PATENT LAW FIRM; 4~6F., 8, Bangbae-ro 34-gil Seocho-gu Seoul 06585 (KR)

(54) Title (EN): DISCHARGE DEVICE FOR DISCHARGING, IN DROP FORM, LIQUID CONTENT IN TUBE VESSEL

(54) Title (FR): DISPOSITIF DE DÉCHARGE POUR DÉCHARGER, SOUS FORME DE GOUTTES, UN CONTENU LIQUIDE DANS UN RÉCIPIENT TUBULAIRE

(54) Title (KO): 튜브 용기 내의 액상 내용물을 방울 형태로 배출시키는 배출장치

(57) Abstract:

(EN): Provided is a discharge device for discharging, in drop form, liquid content in a tube vessel wherein, in order to make it possible to easily discharge, in drop form, the liquid content by passing the liquid content through a narrow passage followed by a wide passage and then again through a wide passage followed by a narrow passage as a user opens and closes a discharge hole by means of pressure, said discharge device comprises, sequentially assembled: a tube main body; a tube head that is fused to one end of the tube main body; a regulator that adjusts the discharge amount of the liquid content; and a valve that is disposed below the regulator and opens when the liquid content in the tube main body is pressurized and closes when the pressure is released. Accordingly, the present invention has the effect of making it possible to smoothly use the appropriate amount considered necessary, and in particular, since outside air does not flow in due to the opening and closing of the discharge hole, the present invention has the effect of making it possible to prevent spoiling of the liquid content and thus ensure long-term usage.

(FR): L'invention concerne un dispositif de décharge pour décharger, sous forme de gouttes, un contenu liquide dans un récipient tubulaire dans lequel, afin de permettre de décharger facilement, sous forme de gouttes, le contenu liquide en faisant passer le contenu liquide par un passage étroit suivi d'un passage large, puis à nouveau par un passage large suivi d'un passage étroit lorsqu'un utilisateur ouvre et ferme un trou de décharge au moyen d'une pression, ledit dispositif de décharge comprend, séquentiellement assemblés: un corps principal de tube; une tête de tube qui est fusionnée à une extrémité du corps principal de tube; un régulateur qui ajuste la quantité de décharge du contenu liquide; et une soupape qui est disposée au-dessous du régulateur et s'ouvre lorsque le contenu liquide dans le corps principal de tube est mis sous pression et se ferme lorsque la pression est relâchée. Par conséquent, la présente invention a pour effet de permettre d'utiliser facilement la quantité appropriée considérée nécessaire, et en particulier, étant donné que l'air extérieur ne s'écoule pas en raison de l'ouverture et de la fermeture du trou de décharge, la présente invention a pour effet de permettre d'empêcher la dégradation du contenu liquide et d'assurer ainsi une utilisation à long terme.

(KO): 사용자의 가압에 의해 토출공을 개폐시켜 배출시 좁은 통로에서 넓은 통로를 거친 후 다시 넓은 통로에서 좁은 통로를 통하여 액상 내용물을 방울 형태로의 배출이 용이하게 이루어질 수 있도록 튜브 본체; 상기 튜브 본체의 일단에 응착되는 튜브 헤드; 액상 내용물의 배출량을 조절하는 조절체; 및 상기 조절체의 하부에 튜브 본체 내의 액상 내용물이 가압시 개방되고 가압 해제시 폐쇄되는 밸브체;가 순차적으로 조립되는 것을 포함하는 튜브 용기 내의 액상 내용물을 방울 형태로 배출시키는 배출장치를 제공한다. 그에 따라 필요로 하는 적정량으로의 사용이 원활하게 이루어질 수 있는 효과와 함께 특히, 토출공의 개폐로 인해 외부공기가 내부로 유입되지 않아 액상 내용물이 변질되는 것을 방지하여 오랜 사용기간을 확보할 수 있는 효과도 가진다.

International search report:

Received at International Bureau: 22 June 2018 (22.06.2018) [KR]

International Report on Patentability (IPRP) Chapter II of the PCT:

Not available

(81) Designated States:

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

European Patent Office (EPO) : AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR

African Intellectual Property Organization (OAPI) : BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG

African Regional Intellectual Property Organization (ARIPO) : BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW

Eurasian Patent Organization (EAPO) : AM, AZ, BY, KG, KZ, RU, TJ, TM