

Title (en)  
CLOSED LOOP CHILLED SOLVENT FEED FOR CANNABINOID EXTRACTION

Title (de)  
GEKÜHLTER GESCHLOSSENER KREISLAUF MIT LÖSUNGSMITTELZUFUHR FÜR DIE CANNABINOID-EXTRAKTION

Title (fr)  
ALIMENTATION EN SOLVANT RÉFRIGÉRÉ EN BOUCLE FERMÉE POUR EXTRACTION DE CANNABINOÏDES

Publication  
**EP 3703839 A4 20211117 (EN)**

Application  
**EP 18876158 A 20181108**

Priority  
• US 201715809980 A 20171110  
• US 201862676261 P 20180524  
• CA 2018051416 W 20181108

Abstract (en)  
[origin: WO2019090428A1] Refrigerated solvent is fed through a cooling jacket around an essential element extraction vessel. After circulating through the cooling jacket, the solvent is re-chilled and at least some of the solvent is passed into the extraction vessel, in which essential elements dissolve into the solvent. Downstream of the extraction vessel, after adsorbent media treatment, the extracted oil and solvent mixture is filtered, in a chilled state, through one or more filtration units. A filtration unit may be a system of vertically oriented filters of decreasing pore size sealed and insulated from the atmosphere. Pressurized gas is used to force the oil and solvent through the filters. Each filter stage has a removable lid, which provides convenient access for replacing the filter cartridge without disturbing the thermally insulated sidewalls of the filter stage.

IPC 8 full level  
**B01D 11/02** (2006.01); **A23L 33/105** (2016.01); **A61K 36/185** (2006.01); **C07C 37/68** (2006.01); **C07C 37/82** (2006.01); **C07C 39/23** (2006.01)

CPC (source: EP IL)  
**A23L 33/105** (2016.07 - EP IL); **A61K 36/185** (2013.01 - EP IL); **B01D 11/0273** (2013.01 - EP IL); **B01D 11/028** (2013.01 - EP IL); **B01D 11/0288** (2013.01 - EP IL); **B01D 11/0296** (2013.01 - EP IL); **C07C 37/685** (2013.01 - EP IL); **C07C 37/82** (2013.01 - EP IL); **C07C 39/23** (2013.01 - IL); **A61K 2236/00** (2013.01 - EP IL); **C07C 2601/16** (2017.04 - EP IL)

Citation (search report)  
• [A] US 2017312651 A1 20171102 - GALYUK YEVGENIY [US]  
• [A] US 9169455 B2 20151027 - HAMLER JERRY [US], et al  
• [A] US 2017043276 A1 20170216 - TENNANT NICHOLAS [US]  
• See references of WO 2019090428A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
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**WO 2019090428 A1 20190516**; AU 2018363165 A1 20200514; AU 2018363165 B2 20200618; CA 3063941 A1 20190516; CA 3063941 C 20200218; CL 2020001222 A1 20200814; CO 2020005668 A2 20200731; EP 3703839 A1 20200909; EP 3703839 A4 20211117; IL 274201 A 20200630; IL 274201 B 20200831; IL 274224 A 20200630; IL 274224 B 20200930; MA 50857 A 20200909; MX 2020004819 A 20210121; NZ 763965 A 20200731; ZA 201906689 B 20200729; ZA 201906754 B 20200930

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