

Title (en)
MODULAR SYSTEM AND METHOD FOR CONTINUOUSLY PRODUCING AND/OR PREPARING A PRODUCT IN A DISINFECTED MANNER

Title (de)
MODULARE ANLAGE UND VERFAHREN ZUR KONTINUIERLICHEN, KEIMREDUZIERTEN PRODUKTION UND/ODER AUFBEREITUNG
EINES PRODUKTES

Title (fr)
INSTALLATION MODULAIRE ET PROCÉDÉ DE PRODUCTION ET/OU PRÉPARATION D'UN PRODUIT EN CONTINU AVEC UN NOMBRE
RÉDUIT DE GERMES

Publication
EP 3292195 A1 20180314 (DE)

Application
EP 16722580 A 20160429

Priority
• EP 15166686 A 20150507
• EP 2016059700 W 20160429

Abstract (en)
[origin: CA2984981A1] The invention relates to a method for continuously producing and/or preparing a biopharmaceutical biological macromolecular product from a heterogeneous cell culture/fluid mixture in a disinfected manner, having the following steps: (a) providing a particle-free fluid from a heterogeneous cell culture/fluid mixture, said fluid containing the product, in the form of a product flow, (b) carrying out at least one filtering process, whereby a filtrate is obtained, (c) carrying out at least two chromatography steps for cleaning the product, (d) carrying out at least one virus-removing process, and (e) carrying out at least one ultrafiltration process and/or at least one diafiltration process on the product flow from step (b), (c), and/or (d), said method being characterized in that the at least two chromatography steps from step (c) include a cleaning process using at least two respective chromatography columns and/or membrane adsorbers and in that the method is carried out in a closed and modular manner. The invention further relates to a corresponding modular system for carrying out the method.

IPC 8 full level
C12M 1/00 (2006.01); **B01D 15/18** (2006.01); **C07K 1/36** (2006.01); **C12M 1/12** (2006.01); **C12M 3/00** (2006.01)

CPC (source: CN EP IL KR RU US)
B01D 15/1864 (2013.01 - EP IL KR RU US); **B01D 19/0031** (2013.01 - IL RU US); **B01D 61/145** (2013.01 - IL US);
B01D 61/146 (2022.08 - IL RU); **B01D 61/243** (2013.01 - IL RU US); **B01D 61/58** (2013.01 - IL RU US); **C07K 1/20** (2013.01 - CN IL);
C07K 1/22 (2013.01 - CN IL); **C07K 1/34** (2013.01 - CN IL); **C07K 1/36** (2013.01 - CN EP IL KR RU US); **C07K 16/00** (2013.01 - IL RU US);
C12M 37/00 (2013.01 - EP IL KR US); **C12M 47/12** (2013.01 - CN EP IL KR RU US); **C12M 47/16** (2013.01 - IL US);
B01D 2311/12 (2013.01 - IL US); **B01D 2311/2626** (2013.01 - IL US); **B01D 2311/2649** (2013.01 - IL US); **B01D 2315/16** (2013.01 - IL US)

Cited by
US11007457B2; US11214789B2; US11474085B2; US10975368B2; US11708572B2; US11420136B2; US11021699B2; US11459540B2;
US10704021B2; US10724029B2; US11085035B2; US10785574B2; US10967298B2; US11377651B2

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)
BA ME

DOCDB simple family (publication)
EP 3015542 A1 20160504; AR 104523 A1 20170726; AU 2016257253 A1 20171130; AU 2016257253 B2 20200618;
BR 112017023912 A2 20180717; CA 2984981 A1 20161110; CN 107995924 A 20180504; CN 107995924 B 20210907;
EP 3292195 A1 20180314; HK 1254902 A1 20190802; IL 255383 A0 20171231; IL 255383 B 20210930; JP 2018518161 A 20180712;
JP 6794372 B2 20201202; KR 20180002783 A 20180108; MX 2017014278 A 20180307; RU 2017142617 A 20190610;
RU 2017142617 A3 20191004; RU 2721535 C2 20200519; SA 517390299 B1 20210302; SG 11201709094W A 20171228;
TW 201706403 A 20170216; TW I696696 B 20200621; US 10696940 B2 20200630; US 2018135006 A1 20180517;
WO 2016177650 A1 20161110; ZA 201708284 B 20210526

DOCDB simple family (application)
EP 15166686 A 20150507; AR P160101271 A 20160504; AU 2016257253 A 20160429; BR 112017023912 A 20160429;
CA 2984981 A 20160429; CN 201680039860 A 20160429; EP 16722580 A 20160429; EP 2016059700 W 20160429; HK 18114001 A 20181102;
IL 25538317 A 20171101; JP 2017557944 A 20160429; KR 20177034919 A 20160429; MX 2017014278 A 20160429;
RU 2017142617 A 20160429; SA 517390299 A 20171107; SG 11201709094W A 20160429; TW 105113911 A 20160505;
US 201615571754 A 20160429; ZA 201708284 A 20171206