Title (en)

TIGHT CONNECTION DEVICE FOR THE ASEPTIC TRANSFER OF A BIOPHARMACEUTICAL PRODUCT BETWEEN A CHAMBER AND A CONTAINER

Title (de)

VORRICHTUNG MIT DICHTER VERBINDUNG ZUM ASEPTISCHEN TRANSFER EINES BIOPHARMAZEUTISCHEN PRODUKTS ZWISCHEN EINER KAMMER UND EINEM BEHÄLTER

Title (fr)

DISPOSITIF DE JONCTION ETANCHE POUR LE TRANSFERT ASEPTIQUE D'UN PRODUIT BIOPHARMACEUTIQUE ENTRE UNE ENCEINTE ET UN CONTENEUR

Publication

EP 3691787 A1 20200812 (FR)

Application

EP 18785692 A 20180926

Priority

- FR 1771042 A 20171003
- FR 2018000223 W 20180926

Abstract (en)

[origin: WO2019068963A1] A tight connection device (40) intended to ensure the aseptic transfer of a biopharmaceutical product between a chamber (10) provided with a removable door (18) and a container (20) provided with a removable cover, comprises: - stationary temporary clamping means (50) capable of keeping the container (20) clamped against the chamber (10) such that the removable cover (28) of the container (20) is hermetically pressed against the removable door (18) of the chamber (10); stationary unlocking means (60) capable of switching the container (20) from an initial locked position in which the removable cover (28) hermetically seals the container (20) to an intermediate unlocked position in which the removable cover (28) is disengaged from the container (20) and held hermetically against the removable door (18) of the chamber (10) so as to ensure aseptic communication between the container (20) and the chamber (10); stationary locking means (70) capable of switching the container (20) from the intermediate unlocked position to an end locked position in which the removable cover (28) hermetically seals the container (20) once more; an annular functional crown (42) capable of being rotated about a geometric axis of rotation (R) in such a way as to actuate the stationary unlocking means (60) and the stationary locking means (70) of the container (20), the stationary unlocking means (60) and the stationary locking means (70) being mechanically linked to the annular functional crown (42) and arranged such that the rotation of the annular functional crown (42) about the geometric axis of rotation (R) results successively in the actuation of the stationary unlocking means (60) ensuring the switch to the intermediate unlocked position of the container (20), then the actuation of the stationary locking means (70) ensuring the switch to the end locked position of the container (20). The device further comprises stationary immobilising/release means (80) capable of preventing the annular functional crown (42) from rotating when the stationary immobilising/release means (80) are in an immobilising position, and capable of allowing the annular functional crown (42) to rotate when the stationary immobilising/release means (80) are in a release position.

IPC 8 full level

B01L 1/02 (2006.01); **A61J 1/20** (2006.01); **G21F 7/005** (2006.01)

CPC (source: EP KR US)

A61J 1/2093 (2013.01 - US); **B01L 1/02** (2013.01 - EP KR US); B01L 2200/025 (2013.01 - US); B01L 2200/0689 (2013.01 - US); B01L 2200/141 (2013.01 - EP KR US); B01L 2300/04 (2013.01 - US); B01L 2300/041 (2013.01 - US); B01L 2300/043 (2013.01 - US); B01L 2300/123 (2013.01 - US)

Citation (search report)

See references of WO 2019068963A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

FR 3071725 A1 20190405; CN 111182969 A 20200519; CN 111182969 B 20220923; EP 3691787 A1 20200812; EP 3691787 B1 20220316; KR 102519531 B1 20230410; KR 20200058538 A 20200527; US 11684913 B2 20230627; US 2020238273 A1 20200730; WO 2019068963 A1 20190411

DOCDB simple family (application)

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