

Title (en)
APPARATUS AND METHOD FOR MONITORING AND CONTROLLING THE FILLING OF A CONTAINER WITH A PHARMACEUTICAL FLUID IN AN ASEPTIC ENVIRONMENT

Title (de)
VORRICHTUNG UND VERFAHREN ZUR ÜBERWACHUNG UND STEUERUNG DER BEFÜLLUNG EINES BEHÄLTERS MIT EINER PHARMAZEUTISCHEN FLÜSSIGKEIT IN EINER ASEPTISCHEN UMGEBUNG

Title (fr)
APPAREIL ET PROCÉDÉ DE SURVEILLANCE ET DE COMMANDE DU REMPLISSAGE DE RÉCIPIENT RENFERMANT UN FLUIDE PHARMACEUTIQUE DANS UN ENVIRONNEMENT ASEPTIQUE

Publication
EP 3694465 A4 20210728 (EN)

Application
EP 18867189 A 20180926

Priority
• US 201715729655 A 20171010
• CA 2018051214 W 20180926

Abstract (en)
[origin: WO2019071339A1] The present invention involves a system and method for monitoring and controlling the aseptic dispensing of a pharmaceutical fluid into containers (510). The system (1000) employs a pharmaceutical fluid dispensing head (174, 174') to dispense droplets (700) of the pharmaceutical fluid along a droplet path (710) into the container and a droplet monitoring system (250, 250') to monitor the droplets produced and dispensed. The volume of at least one droplet is determined based on images of the droplet falling along the droplet path. The volume of pharmaceutical fluid dispensed is determined from the volume of the droplets. The pharmaceutical fluid dispensing head and the droplet monitoring system may be mutually integrated and may be used in systems using different mechanisms for moving containers, including rotary stage systems (130) and robotic arms (170', 170", 800).

IPC 8 full level
A61J 1/22 (2006.01); **A61J 1/20** (2006.01); **B65B 3/00** (2006.01); **B65B 3/26** (2006.01); **B65B 55/12** (2006.01); **B67C 3/20** (2006.01)

CPC (source: EP KR)
B65B 3/003 (2013.01 - EP KR); **B65B 3/26** (2013.01 - EP); **B65B 31/025** (2013.01 - EP); **B65B 39/12** (2013.01 - EP); **B65B 43/50** (2013.01 - EP); **B65B 55/027** (2013.01 - EP KR); **B65B 55/10** (2013.01 - EP); **B65B 55/18** (2013.01 - EP); **B65B 57/145** (2013.01 - EP)

Citation (search report)
• [A] WO 2017072591 A1 20170504 - VANRX PHARMASYSTEMS INC [CA]
• [A] US 2006172060 A1 20060803 - TEICHMAN EYAL [IL], et al
• See also references of WO 2019071339A1

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

DOCDB simple family (publication)
WO 2019071339 A1 20190418; BR 112020007069 A2 20201006; BR 112020007069 B1 20230110; CA 3077526 A1 20190418; CN 111201007 A 20200526; CN 111201007 B 20210813; EP 3694465 A1 20200819; EP 3694465 A4 20210728; KR 102366435 B1 20220223; KR 102520045 B1 20230411; KR 20200066667 A 20200610; KR 20220025287 A 20220303; KR 20230052987 A 20230420; TW 201929827 A 20190801

DOCDB simple family (application)
CA 2018051214 W 20180926; BR 112020007069 A 20180926; CA 3077526 A 20180926; CN 201880066525 A 20180926; EP 18867189 A 20180926; KR 20207012807 A 20180926; KR 20227005343 A 20180926; KR 20237011508 A 20180926; TW 107134156 A 20180927