

Title (en)

DOUBLE ACTING CONTINUOUS FLOW SYSTEM TYPE PUMP.

Title (de)

DOPPELT WIRKENDE PUMPE FÜR KONTINUIERLICHE FÖRDERUNG.

Title (fr)

POMPE DU TYPE A SYSTEME D'ÉCOULEMENT CONTINU A DOUBLE EFFET.

Publication

EP 0040250 A4 19820310 (EN)

Application

EP 81900112 A 19801118

Priority

US 9523079 A 19791119

Abstract (en)

[origin: WO8101445A1] It is an object of the present invention to provide an improved fluid delivery system (10) for continuous and substantially constant delivery of liquids such as medications, nutrients, blood, plasma, etc. from a reservoir (14) to animals and human patients which employs a syringe type mechanism (11) with a reciprocating piston (26). A passage (43) and appropriate valving (13 and 42) permit constant and equal fluid delivery throughout the reciprocating motion of the piston. An additional object is to provide a sealing means which prevents contamination of the fluid and internal working elements of the pump during all stages of pump use and operation via exposure of the driving rod to external contaminants. A further object of the invention is to provide a fail-safe external valving system (101) that ensures that fluid is not supplied to the patient by gravity from the reservoir in the event of any failure of the pump.

IPC 1-7

F04B 5/00

IPC 8 full level

A61M 5/142 (2006.01); **F04B 5/02** (2006.01)

CPC (source: EP)

A61M 5/1422 (2013.01); **F04B 5/02** (2013.01)

Citation (search report)

- FR 1075780 A 19541020
- CH 348049 A 19600731 - BERTHOUD & CIE S A [CH]
- GB 958171 A 19640513 - WELTIS ENGINEERING COMPANY LTD, et al
- DE 1557074 A1 19710429 - REECE CORP
- FR 1561829 A 19690328
- DE 835239 C 19520331 - MASCHF AUGSBURG NUERNBERG AG
- FR 2417300 A1 19790914 - BOZAL GONZALEZ JOSE [ES]

Cited by

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FR

DOCDB simple family (publication)

WO 8101445 A1 19810528; CA 1170532 A 19840710; EP 0040250 A1 19811125; EP 0040250 A4 19820310; GB 2074665 A 19811104;
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