

Title (en)
Medical pumping apparatus and related methods

Title (de)
Medizinische Pumpenvorrichtung und zugehörigem Verfahren

Title (fr)
Dispositif de pompage médical et procédés associés

Publication
EP 0992230 A2 20000412 (EN)

Application
EP 99307963 A 19991008

Priority
US 16859798 A 19981008

Abstract (en)
A medical pumping system (10) for use with a therapeutic patient treatment system generally comprises a reservoir (12) for holding a compressed fluid, with a fluid outlet (13,14) and a valve (15,16) for controlling flow of fluid from the reservoir through the outlet; a compressor (11) for supplying pressurised fluid to the reservoir (12); and a controller (17) for controlling the supply of pressurised fluid to the reservoir (12) and for controlling the flow of fluid from the reservoir through the outlet (13,14). The controller (17) has associated therewith a sensor (25) for measuring the internal pressure of the reservoir, and is adapted to provide the reservoir with an initial quantity of fluid on an initial cycle of operation; to operate the valve (15,16) to release the initial quantity of fluid from the reservoir (12) through the valve; to measure the internal pressure of the reservoir (12) while the valve (15,16) is operated; and to provide the reservoir with an additional quantity of fluid, less than the initial quantity of fluid based upon a comparison of the internal pressure of the reservoir (Peq), after the release of the initial quantity of fluid, with the target pressure (Ptarg). <IMAGE>

IPC 1-7
A61H 23/04

IPC 8 full level
A61H 23/04 (2006.01)

CPC (source: EP)
A61H 9/0078 (2013.01)

Citation (applicant)
• US 3957493 A 19930325
• US 10391098 A

Cited by
CN109498391A; US7076993B2; WO0197747A1; US9737454B2; US10943678B2; US10507158B2; US10952920B2

Designated contracting state (EPC)
AT DE FR GB

DOCDB simple family (publication)
EP 0992230 A2 20000412; EP 0992230 A3 20010822

DOCDB simple family (application)
EP 99307963 A 19991008