



(11) **EP 3 398 628 A1**

(12) **EUROPEAN PATENT APPLICATION**

(43) Date of publication:
07.11.2018 Bulletin 2018/45

(51) Int Cl.:
A61M 1/36 (2006.01)

(21) Application number: **18180811.4**

(22) Date of filing: **06.02.2014**

(84) Designated Contracting States:
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

(30) Priority: **06.02.2013 US 201361761405 P**
07.02.2013 US 201361762197 P
14.03.2013 US 201361783774 P
13.01.2014 US 201461926704 P

(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC:
14749201.1 / 2 953 662

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Remarks:

This application was filed on 29.06.2018 as a divisional application to the application mentioned under INID code 62.

(54) **FLUID CIRCUIT PRIMING METHODS, DEVICES, AND SYSTEMS**

(57) According to embodiments, priming systems, methods, and devices are disclosed which allow medical treatment devices which pump fluid to be primed with minimal operator intervention and a high level of convenience. A blood circuit with a filter fitted with one or more air vents on a non-blood compartment is attached to a treatment system and priming fluid pumped slowly through the blood circuit in a loop. The source of fluid may be elevated, or the pumping may generate pressure, such that priming fluid is forced through the membrane of the filter and out the air vent(s). In embodiments, the vents are hydrophobic which prevent fluid from being ejected, so the priming system can run without intervention.

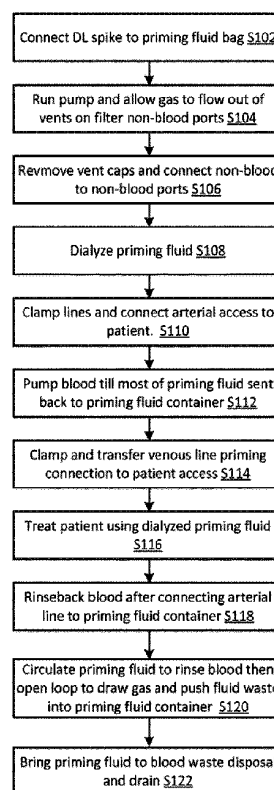


Fig. 8

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