

Title (en)
FLUID DELIVERY SYSTEMS, PRESSURE ISOLATION MECHANISMS, INJECTOR CONTROL MECHANISMS, AND METHODS OF USE THEREOF

Title (de)
FLUIDZUFUHRSYSTEME, DRUCKISOLIERMECHANISMEN, EINSPRITZSTEUERMECHANISMEN UND VERWENDUNGSVERFAHREN DAFÜR

Title (fr)
SYSTEMES DE DISTRIBUTION DE FLUIDES, MECANISMES D'ISOLATION DE PRESSION, MECANISMES DE CONTROLE D'INJECTEUR ET PROCEDES D'UTILISATION ASSOCIES

Publication
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Application
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Priority
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Abstract (en)
[origin: WO2005110007A2] An injector system includes a source of injection fluid, a pump device, a fluid path set disposed between the source of injection fluid and the pump device, and a fluid control device operatively associated with the fluid path set. The fluid control device is adapted to permit purging of air from the fluid path set and to stop flow of the injection fluid to a patient at substantially any pressure or flow rate generated by the pump device for delivering a sharp bolus of the injection fluid to the patient. The fluid control device is preferably part of the fluid path set between the source of injection fluid and the pump device. In another aspect, an injector system includes a powered injector, a pressurizing chamber in operative connection with the powered injector, a fluid path in fluid connection with the pressurizing chamber, and a manual control in fluid connection with the fluid path. The manual control includes at least one actuator for controlling the injector through application of force by an operator. The actuator provides tactile feedback of pressure in the fluid path to the operator via a fluid connection with the fluid path. A pressure isolation mechanism for use in a medical procedure includes a lumen, an isolation port in fluid connection with the lumen, and a valve having a first state and a second state. The first state occurs when the lumen and the isolation port are connected. The second state occurs when the lumen and the isolation port are disconnected. The lumen remains open for flow of fluid therethrough in the first state and in the second state. The valve is normally in the first state and is switchable to the second state when fluid pressure in the lumen reaches a predetermined pressure level. A pressure transducer can be in fluid connection with the isolation port of the pressure isolation mechanism. A fluid delivery system includes a manually operated syringe and a pressure isolation mechanism as described above.

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Citation (search report)

- [XY] WO 03015851 A1 20030227 - SCIMED LIFE SYSTEMS INC [US]
- [Y] EP 1172124 A2 20020116 - SIDAM DI AZZOLINI GRAZIANO E C [IT]
- [A] WO 0152921 A2 20010726 - NESTLE SA [CH], et al
- See references of WO 2005110007A2

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DOCDB simple family (application)
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