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Tilling et al.

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(54) **LIQUID DELIVERY NOZZLE**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(57) **ABSTRACT**

Provided are nozzles useful for controllably transferring any fluid including without limitation liquids such as hydrocarbon fuels from a first reservoir to a second reservoir. Dispensing nozzles as provided herein have several advantages, including increased control by the technician who is transferring the fluids over the nozzle itself by virtue of greater physical control and less operator fatigue. In addition, a small amount of force applied to the dispensing lever results in a relatively large opening of the control valve mechanism. Further, when line pressure is zero or near zero, it is not possible for un-metered fluid leakage to occur, which provides cost advantages to large volume vendors of liquids such as hydrocarbon fuels which are dispensed on a routine basis, such as at airports. Safety is also greatly enhanced, since latent quantities of fuel cannot flow out from lines equipped with the nozzles provided when supply lines are not pressurized.

Related U.S. Application Data

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B67D 7/42 (2010.01)
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CPC **B67D 7/42** (2013.01); **B64F 1/28** (2013.01)

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CPC B64F 1/28; B67D 7/42
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See application file for complete search history.

10 Claims, 11 Drawing Sheets

