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Ellis et al.

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(54) **FILTER VIAL**

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2300/0681; B01L 2300/0832; B01L 2300/123;
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See application file for complete search history.

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(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
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This patent is subject to a terminal dis-
claimer.

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Related U.S. Application Data

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(57) **ABSTRACT**

(51) **Int. Cl.**
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A filter vial and piston are provided where the vial has a
cylindrical wall with a closed bottom and open top and with
the hollow, tubular piston therein. The piston has a distal end
covered by a cup having a proximal cup seal extending out-
ward to engage the walls of the vial to form a fluid tight seal
with the vial during use. The distal end of the piston has a
piston flange extending outwardly and located adjacent a
recess in the piston so the cup forms a snap fit over the piston
flange and extends into the recess. The piston flange causes
the cup to bulge sufficiently outward to form a fluid tight seal
with the vial during use. A filter is placed in the bottom of the
cup and abuts an inwardly extending lip on the cup. The filter
is held against the lip by a piston support at the distal end of
the piston. A cup support at a distal end of the cup also helps
support the filter.

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