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Petty

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(54) **APPARATUS FOR FLUSHING, REPLACING FLUID AND BLEEDING HYDRAULIC SYSTEMS**

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(75) **Inventor:** Jon A. Petty, Tucson, AZ (US)

Primary Examiner—Steven O. Douglas

(73) **Assignee:** Phoenix Systems, L.L.C., Tucson, AZ (US)

(74) *Attorney, Agent, or Firm*—Antonio R. Durando; Quarles & Brady Streich Lang LLP

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

(57) **ABSTRACT**

A hydraulic system servicing apparatus includes an old fluid holding vessel and a new fluid supply vessel with a selector valve which draws fluid from the holding vessel during flushing operations and draws fluid from the supply vessel during fluid replacement and bleeding operations. A pump moves the fluid through the selector valve and supplies it to a flow reversing valve which has a master cylinder line and a plurality of bleeder valve lines for connection to the hydraulic system. A shutoff valve is provided in each bleeder valve lines for directing fluid through the different branches of the hydraulic system. To flush the system, the flow reversing valve is cycled to circulate the fluid from the old fluid holding vessel in opposite directions and return it to the old fluid holding vessel. To replace the fluid and bleed the system, the fluid selector valve directs new fluid through the flow reversing valve into the system.

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(58) **Field of Search** 141/98, 67, 59, 141/65, 286, 301, 302, 69, 72-74; 184/1.5

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36 Claims, 4 Drawing Sheets

