

Abstract

The invention discloses a circuit switching valve, a chassis hydraulic system for a crawler crane, and a crawler crane. The circuit switching valve comprises a valve body and a valve spool arranged in the valve body, wherein the valve spool comprises a valve spool oil drain channel arranged in the valve spool, and the valve body comprises an oil drain port, a valve body oil drain channel arranged in the valve body, and a plurality of oil inlets and working ports; the oil inlets are connected to the corresponding working ports in an operating state, and the working ports in a non-operating state are connected to the oil drain port by means of the valve spool oil drain channel and the valve body oil drain channel to discharge hydraulic oil from the working ports in the non-operating state to prevent misoperation. The invention solves the problems of leakage, oil flow to a non-operating circuit and excessive pressure of multi-way reversing valves in the prior art during circuit switching, and also solves the problems of excessive pressure, stretching and retraction of a gauge control cylinder and an outrigger cylinder and excessive pressure and rotation of travel motors of a chassis hydraulic system of a crawler crane in absence of an instruction caused by a circuit switching valve, thus greatly improving system reliability and reducing the requirements of equipment management staff and users for routine inspection and maintenance of equipment.

[Fig. 1]