ABSTRACT

REMOTELY OPERATED DRILL PIPE VALVE

A valve, such as a ball valve, is assembled and carried by a running tool. The valve is actuated by an actuator that is triggered by the running tool, and thus opens and closes communication between the drill pipe and the volume below the running tool. An actuating cam is assembled below the running tool that interfaces the actuator. The actuating cam is threaded such that it travels axially as the drill pipe is turned. A profile on the actuating cam is timed with the function of the running tool and controls the action of the actuator such that the valve is open when the running tool function requires communication with the volume below the running tool and the valve is closed when the running tool needs to be pressurized.

[Figure. 2]