

Improved channel cleaning system

Abstract

An improved channel cleaning system comprises an isolating plate with a filter screen, which allows fluid instead of cleaning balls to flow through; a ball collector, which is separated into a first chamber and a second chamber; an inlet of a fluid supply tube and an outlet of a cleaning ball supply tube are arranged with a pressure difference, thus generating a suction which enables the cleaning balls to flow through the cleaning balls supply tube and be sent from the cleaning balls supply tube into the channel so as to clean the wall of the channel; an inlet of the cleaning ball return tube and an outlet of the fluid return tube are arranged to form a pressure difference, thus generating a suction which enables the cleaning balls to flow into a ball collector, with at least the cleaning ball return tube and the cleaning ball supply tube being connected to the first chamber of the ball collector via a T-shaped tube; the system has advantages that there are little contacts on the ball collector, and the inlet of the fluid supply tube and the outlet of the cleaning ball supply tube are in a straight line or present 90 degrees on the ball collector, thus enabling the flow of the fluid and the cleaning balls to be more smooth; and there is a highly flexible assembly matching, and it can also be convenient for installation and maintenance in a limited space.

Fig. 1