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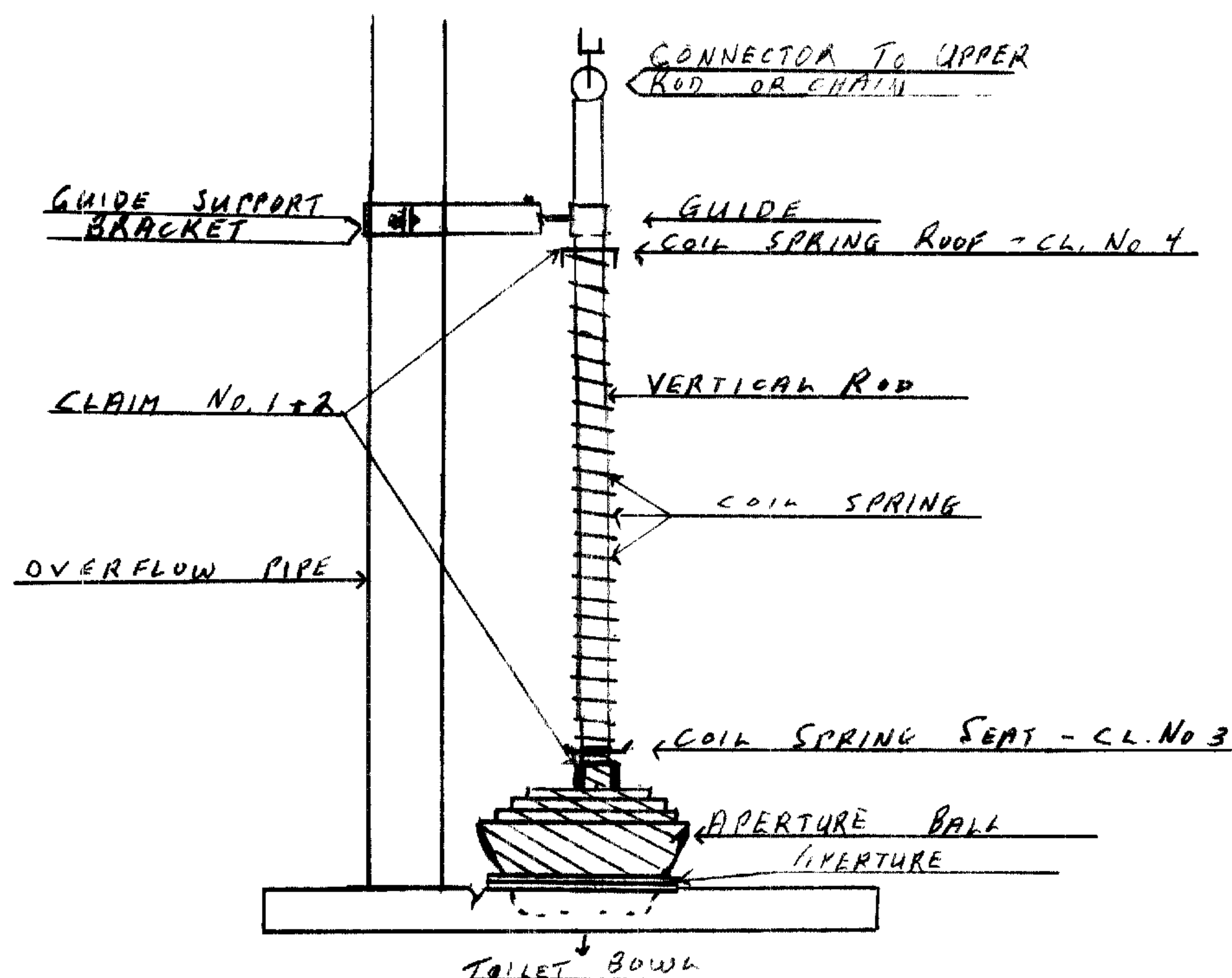
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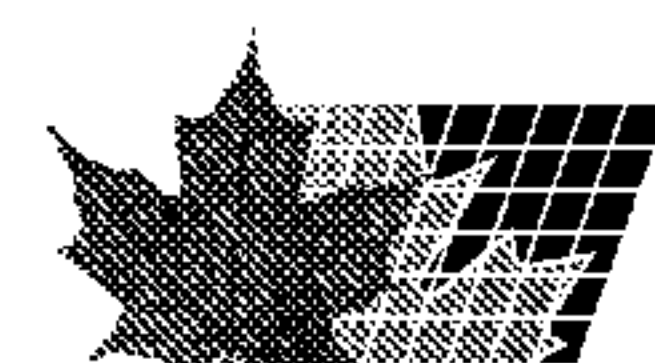
(54) Titre : DISPOSITIF DE COMMANDE DE CHASSE D'EAU DE RESERVOIR DE TOILETTE

(54) Title: TOILET RESERVOIR WATER DISCHARGE CONTROL DEVICE



(57) Abrégé/Abstract:

In a tool for controlling the escape of water from a toilet reservoir it is known to have a rod float is guided through a bracket attached to the overflow vent and controls the up and down motion of the ball cock that when down shuts off the water escape. In this invention a coil spring is affixed to the rod between the ball cock and the guide bracket. In contrast to the ball cock floating down on top of released water the ball cock is projected through the. water to the escape aperture immediately upon release of the toilet flush handle, prohibiting the escape of unnecessary waste water.



Abstract

In a tool for controlling the escape of water from a toilet reservoir it is known to have a rod that is guided through a bracket attached to the overflow vent and controls the up and down motion of the ball cock that when down shuts off the water escape.

In this invention a coil spring is affixed to the rod between the ball cock and the guide bracket.

In contrast to the ball cock floating down on top of released water the ball cock is projected through the water to the escape aperture immediately upon release of the toilet flush handle, prohibiting the escape of unnecessary waste water.

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SPECIFICATIONS

The "Toilet Reservoir Water Discharge Control Device" is an instrument for the purpose of controlling the discharge of flush water from the toilet reservoir. Said water generally flows from the reservoir through a connecting pipe into the toilet bowl flushing away any waste from the bowl into the sewage system.

One flush generally empties the reservoir of a volume of from 12 liters to 15 liters of water. This is probably necessary when there is solid waste. However this volume of discharge water is totally unnecessary for liquid waste only. A sufficient volume of water for liquid waste is about 4 liters thus a full reservoir discharge of 12 or more liters is a waste in excess of 8 liters per flush.

This invention relates to an instrument that controls the volume of water discharged.

A toilet reservoir's apparatus consists of a ball that sits in an aperture to retain the water in the reservoir. This ball has at its top a rod about four and one half inches in length. The rod is threaded into the ball. The rod is secured in a perfectly vertical position by a guide that is affixed to an overflow pipe.

In order to empty the reservoir there is a flush handle on the exterior of it and when activated, through a series of connecting rods and possibly chains, the vertical rod attached to the ball is lifted removing the ball from the aperture allowing the reserved water to flow into and flush out the waste in the toilet bowl.

The entire water reserve is drained in each flush.

I have created an instrument where the vertical rod above the ball contains a coil wire between the ball top and the rod guide support that is affixed to the overflow drain pipe. This coil wire is supported in a vertical position by the vertical rod.

It is contained and supported at the bottom by a round "seat" that is affixed to the lower end of the rod by thread. This allows a base for the coil spring and prohibits the end of it from causing friction damage to the top of the ball.

At the top of the coil spring surrounding the rod there is a "roof" that prevents the top of the coil from getting out of alignment or becoming entangled in the rod support.

With this instrument in place the reservoir ball is immediately returned to its closed position when one releases the flush handle on the exterior of the reservoir. Generally the ball returns to its closed position only after the reservoir is emptied.

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For example when the ball is lifted the coil spring is compacted to about one third of its extended length and will remain there until the flush handle is released. The release of the flush handle allows the wire coil to expand immediately shutting closed the ball in the aperture prohibiting the escape of excess water.

A volume of water of about 4 liters is consumed for the elimination of liquid waste as compared to the entire reservoir of 12 to 15 liters.



FREE ENCLOSED

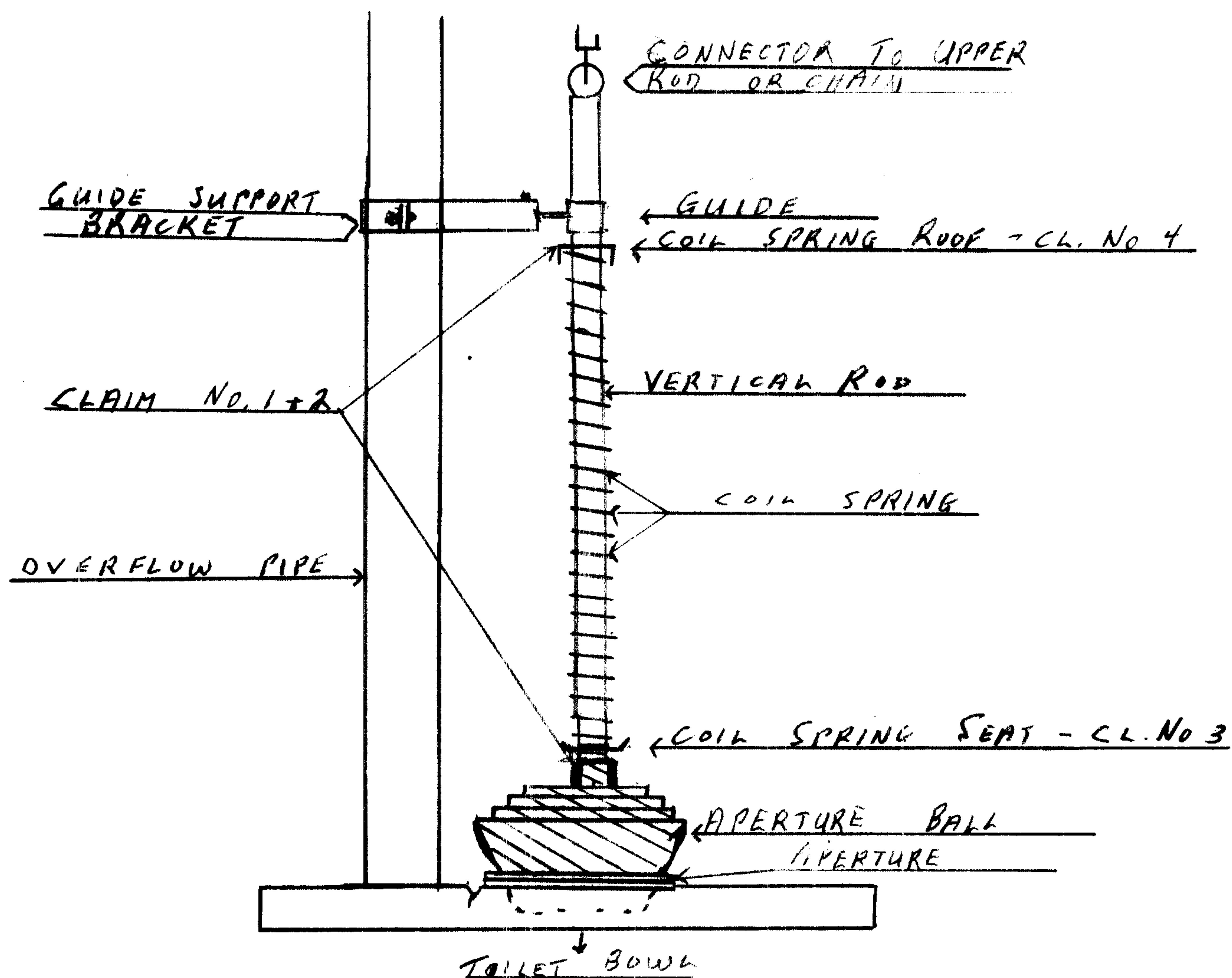
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CLAIMS

1. An instrument for the purpose of controlling the release of discharge water from a toilet reservoir into the toilet bowl.
2. An instrument as described in No. 1 made to function with a coil spring, supported vertically by a rod, manually expanded and contracted to allow the opening and forced closing of the reservoir water escape aperture.
3. A "seat" as part of the instrument described in No. 1 acting as a base for the coil spring and prohibiting the coil spring from contact with the "ball" and causing damage to it, said "ball" being the preventer of water from escaping from the reservoir when in a closed position on the reservoir lower aperture.
4. A "roof" consisting of a small hood type disc surrounding the rod at the upper end to prevent the upper end of the coil spring to come out of alignment or connect to the rod support.



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TOILET RESERVOIR WATER
DISCHARGE CONTROL DEVICE

