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Patent Search

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Abstract:

ABSTRACT The titled "AUTOMATIC WATER DISPENSER is designed to discharge the water automatically with touch less operation. The device is directly connected with the source of water line connection and with no further installation. The IR sensor is fixed underneath the device near the spout. If the vessel is placed under the spout the sensor senses and the water is discharged through the spout automatically. The distribution of water stops only if the vessel is taken away. Since the process is automatic and touchless and the water is delivered only if the vessel is placed and hence wastage of water is avoided. The device is powered by battery which can be recharged and hence operates multiple times.

Complete Specification

We claims (5)

1. The "AUTOAMTIC WATER DISPENSER " comprising Outer cabinet (6), Inlet water passage coupling (4), water outlet spout (2), Electronic interface (8)
2. According to claim (1) of the Automatic water dispenser it is characterized in that the Outer cabinet (6) which is made of high grade plastic material with fancy appearance with the provision of inlet water line coupling (4) arrangement which can be directly fastened to the main water line connection. The opposite side of the cabinet is provided with external water spout (2) to deliver the water from inlet line to outlet whenever the sensor (9) is triggered. The solenoid valve (10) fixed inside the cabinet is connected with flexible pipeline to connect with both inlet and out let water connection line. The IR sensor (9) fixed near the spout with the tip of the sensor protruding outside is designed to sense the proximity of the vessel. The internal electronic circuitry (8) is designed to operate with 6 Volt dc voltages which draw the power from lithium ion battery and the sensor senses for the proximity signal and is detected by the interface which in turn activates the solenoid valve coil to energize. The energizing of coil activates the valve of the water passage and the water from inlet to outlet is delivered.
3. According to claim (1) of the Automatic water dispenser it is characterized in that the Inlet water passage coupling (4) has the provision to couple directly with the main source of water line connection without the need to any other fastening arrangement to connect. The entire device has no other fastening arrangement with the wall when fastening with pipe line itself will be strong enough to hold the device.
4. According to claim (1) of the Automatic water dispenser it is characterized in that the Water outlet spouts (2) is the outlet water passage to deliver the water whenever the vessel is placed near the spout. The placing of vessel is sensed by Infra red proximity sensor (9) and through electronic interface activates the solenoid valve and water is delivered.

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