Abstract (en)
A washing machine and a control method. The washing machine comprises an outer cylinder (13), and an inner cylinder (1). A gimbal ring is disposed at a cloth dropping port of the inner cylinder (1). The gimbal ring is a round ring structure. A water input port (2) is disposed on an inner circumference of the gimbal ring, so that water can enter the gimbal ring to function as equilibrium liquid to balance a load offset, and at least one water drainage port (8) that can be opened and closed is disposed on an outer circumference of the gimbal ring; or the inside of the gimbal ring is a hollow cavity, and the washing machine is also provided with a water input structure and a water drainage structure, the water input structure being used for inputting water to the hollow cavity to balance a load offset, and the water drainage structure being used for draining away water in the gimbal ring. The inside of the gimbal ring has no fixed fillings, which can reduce the weight of the gimbal ring. When the washing machine works, the washing machine does not need to drive the fillings in the gimbal ring to rotate, which reduces power consumption. A proper amount of water is input according to the measured load offset, which solves a problem that the amount of the fillings inside the gimbal ring of an ordinary washing machine cannot be changed, thereby accurately controlling the balance, reducing the distribution times, and shortening the dehydration time.