

ABSTRACT

SHELF ASSEMBLY AND CONTAINER

Provided are a shelf assembly and a container. The shelf assembly comprises: a mount (1); a gravity sensor (3) comprising a fixed end and a free end, the fixed end being fixed with the mount (1) and the free end being suspended in the air relative to the mount (1); and a tray (2) fixed on the free end. In the shelf assembly, the fixed end of the gravity sensor (3) is fixed with the mount (1), and the free end bears the weight of the tray (2), thus the leverage principle is utilized to greatly improve the recognition accuracy of microgravity variations. The weight of the whole tray (2) is applied to the free end. When goods are placed on the tray (2), the free end is pushed to a deformed status such that the gravity sensor (3) may recognize the weight of the goods according to the deformation; when the goods are removed from the tray (2), the deformation caused thereby will recover, and the gravity sensor (3) may recognize the weight of the removed goods according to the rebounded deformation. A container equipped with the shelf assembly may greatly reduce the possibility of wrong customer order and avoid incorrect payment.

FIG. 1