Claims

1. A device (1) for automatically performing an activity, in particular for automatically cleaning dirty surfaces, comprising at least one sensor (3) for preventing a fall and at least one drive element (4), wherein the drive element (4) defines a rear region (11) and a front region (12) of the device (1) with respect to an intended direction of movement (B),
characterized in that the sensor (3) is a mechanical sensor and is designed to detect a change in the level (N) of the floor through contact with the floor, and is arranged in the front region (12).

2. The device as claimed in one of the preceding claims, characterized in that the sensor (3) is designed to measure by means of pressure, extension or force.

3. The device as claimed in one of the preceding claims, characterized in that the sensor (3) is embodied integrated into a carrier of a wheel, in particular into a caster (32, 33).

4. The device as claimed in one of the preceding claims, characterized in that the sensor (3) is spatially arranged in the region of brushes.

5. The device as claimed in one of the preceding claims 3 to 5, characterized in that the sensor (3) is embodied integrated into foldable casters (32, 33).

6. A method for automatically cleaning dirty surfaces by means of a device (1), comprising the steps:
   - detecting a change in the level in an area of the floor lying in front of the drive element (4) in the direction of movement (B) through contact of a sensor (3) with the floor,
   - if no change in the level of the floor is detected, continuing a cleaning process, and
   - if a change in the level of the floor is detected, ending the locomotion of the device (1) and preferably outputting a signal and/or implementing a change in direction.