

ABSTRACT**MOVING OBJECT WITH COMBINED MOVEMENT**

The invention relates to a mobile (60) that can move on a horizontal plane (14), comprising a body (9) comprising a contact area (17) in contact with the horizontal plane (14), a cam (11) movable in rotation relative to the body (9) about a cam axis (X), the cam (11) having a contact surface (12) in contact with the horizontal plane (14) during its rotation. According to the invention, the contact surface (12) of the cam (11) comprises separate first (15) and second (16) portions, each of the first (15) and second (16) portions having a different coefficient of friction, the coefficient of friction of the first portion (15) being greater than the coefficient of friction of the second portion (16), the first portion (15) being configured to roll without slipping on the horizontal plane (14), the second portion (16) being configured to slip without rolling on the horizontal plane (14), and in that the body (9) is configured to rotate relative to the horizontal plane (14) about a vertical axis (Z) perpendicular to the cam axis (X) when the first portion (15) rolls without slipping on the horizontal plane (14) and to rotate relative to the horizontal plane (14) about a horizontal axis (Y) perpendicular to the cam axis (X) and to the vertical axis (Z) when the second portion (16) slips without rolling on the horizontal plane (14).

Figure to publish: Fig. 6