

Title (en)  
PAY LOAD PROJECTILE

Publication  
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Application  
**EP 86901065 A 19860131**

Priority  
DE 3508453 A 19850309

Abstract (en)  
[origin: WO8605266A1] Pay load projectile (1) having a sensor (16) and a sensor carrier (15) which is mounted in a cavity (14) in the tail section (11) of the projectile (1) and is launch-resistant. After the projectile (1), which is equipped with unfoldable stabilizing vanes, lands in the target area possibly digging itself into the soil, the task arises of removing the sensor (16) from its protected position inside the projectile (1) and setting it up as far as possible above the earth's surface. For this purpose the sensor (16) is connected with a concertina bellows (15) which opens in turn into a container (13) mounted in the projectile (1), and which is filled with polyurethane foam, charged with a propellant gas under high pressure. The container (13) is connected to the concertina bellows (15) by way of a valve (13c) which is operated by an electronic control mechanism (13a) which has, for example, a time switch. Upon opening of the valve (13c), polyurethane foam (17) forces its way into the concertina bellows (15) stretching the latter out, and thereby driving the sensor (16) out of the cavity (14). Finally, the polyurethane foam (17) hardens, so that the concertina bellows (15) which is now stretched out, provides a firm support for the sensor (16) which has left the projectile cavity (14).

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