

Summary

A climbing robot for travelling over adhesive surfaces with endless traction mechanisms (14) and, fastened to them at a distance, controllable adhesive feet (21) that circulate with the endless traction mechanisms (14) along guides (17) in the travel plane, by means of which the adhesive sides of their adhesive elements (15) always point towards the travel surface and wherein the adhesive elements (15) that support and move the climbing robot are switched "ON" and lowered onto the adhesive surface and all of the other adhesive elements (15) are switched "OFF" and raised from the adhesive surface, wherein the climbing robot has square running gear (11), one foot plate (13) each with a guide (17) running around the edges for a multitude of adhesive feet (21) driven by traction mechanisms is arranged in two diagonally opposite corner areas (18) of the running gear (11), wherein the foot plates (13) are attached to a support bar (12) of the running gear (11) and the adhesive feet (21) and therefore their adhesive elements (15) are routed through the guide (17) in such a way that they run in each case at a right angle around their corner area (18) of the square running gear (11) and along an arc (19) connecting the ends of this corner area (18), wherein both of the arcs (19) are on an inner circle enclosed by the square of the running gear (11).

- Fig. 3 -