

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), and a foot plate (13) with a guide (17) running around the edges for a multitude of adhesive feet (21) driven by traction mechanisms exists in each of the four corners (18) of the running gear (11), wherein the foot plates (13) are attached to a support plate (12) of the running gear (11) and wherein all of the adhesive feet (21) and therefore adhesive elements (15) are routed through the guide (17) in such a way that they run at a right angle around one corner area (17) each of the square running gear (11) and along an arc (18) connecting the ends of this corner area (18), wherein all four arcs (19) are on an inner circle enclosed by the square of the running gear (11).

- Fig. 2 -