

Abstract**Systems for position determination using an energy chain**

The invention relates to systems (20; 40) for position determination using an energy chain (1) for guiding supply lines, which energy chain has a movable run (1A), which is fixed at an end to a driver (4), and a stationary run (1B), wherein the driver moves back and forth along a track. The system has a sensor device (12; 41) for position determination, which is attached to the driver (4). In one variant, the system (20) comprises guide components (28A, 28B), arranged along the track, for lateral guidance of the energy chain (1), of which components at least one has a reference component (23A, 24) acting as a position reference. In another variant of the system (14), at least each nth chain link (2) of the energy chain (1) has at least one reference component (44) attached thereto. In both variants, the sensor device (22; 41, 42) for position determination interacts with individual reference components (23A, 24; 44), which allows better and more reliable determination of the current position.

[No Suitable Figure]