

Abstract

The invention relates to an energy chain (1) for guiding lines, such as cables, hoses or the like, between two connection points, at least one of which is movable relative to the other.

The energy chain (1) comprises chain links (2) which are connected to each other and pivotable with respect to each other, wherein the energy chain is movable in particular with a first strand (11) relative to a second strand (12) while forming a deflection arc (15) between the strands and at least one load consuming electrical energy, which is arranged at or in the energy chain, in particular at least one sensor module (10) at a chain link for detecting an operating parameter of the energy chain (1).

According to the invention the energy chain (1) includes an energy converter (14; 18; 40; 50) which is designed to convert mechanical energy, in particular kinetic energy, of the energy chain (1) into electrical energy when the energy chain (1), in particular the movable first strand (11) and/or the deflection arc (15), is moved, and which is connected or connectable to the consumer load in order to supply the latter.

(Fig. 1A)