Energy Guiding Chain with Wear Detection

Abstract

The invention relates to an energy guiding chain (1) comprising at least one detection unit (10, 20, 30, 40, 50, 120) for detecting wear on at least one chain link. The detection unit (10, 20, 30, 40, 50, 120) according to the invention comprises a first electric component (11, 41, 51, 121) on a first chain link and a second electric component (12, 42, 52, 122) which is provided on an adjacent second chain link connected to the first chain link in an articulated manner. The components interact in a contactless manner, in particular in an inductive, magnetic, or capacitive manner, in order to change the coupling in the event of radial and/or axial play in the joint connection between the chain links due to wear.

[Figure 3]