Method for assembling a conveyor chain for a pallet belt of a conveyor

Description

The present invention relates to a method for mounting a conveyor chain for a pallet belt of a moving walkway, and a method for replacing a connecting element in a conveyor chain, and a method for mounting a pallet belt for a moving walkway.

Moving walkways are used as passenger transport systems for the purpose of transporting persons within a structure along a normally horizontal or only slightly inclined travel path. For said purpose, a moving walkway has a pallet belt, on which passengers can stand and which can be moved continuously along the travel path. On the pallet belt, a multiplicity of pallets is arranged one behind the other. Each of the pallets is usually mounted between two conveyor chains which are arranged along opposite sides of the pallet belt. In turn, each of the conveyor chains consists of a multiplicity of elongated chain links which are arranged one behind the other at a spacing distance and are pivotably connected to one another via chain pins, and so the entire conveyor chain is highly stressable with regard to tension. In this case, the spacing distance corresponds essentially to the distance between the central longitudinal axes of the chain pins.

The pallet belt is arranged continuously. This means that the pallets can be moved in a forward direction along the travel path by means of the conveyor chains. At the ends of the travel path, the pallet belt is deflected by deflection devices, so that the pallets can be moved with the annularly closed pallet belt in the opposite return direction back to the beginning of the travel path. Corresponding deflection devices generally have deflection sprockets which each interact with one of the conveyor chains in order to generally deflect said conveyor chains by 180° from the forward direction to the return direction, or vice versa.

If a moving walkway is supposed to be installed in a structure to be newly built, it can be provided that at least parts of the moving walkway are integrated in a floor of the structure, and so a running surface formed by the pallets in the forward direction can be as flush as possible with a surface of said floor. For this purpose, it can be advantageous