SUMMARY OF THE INVENTION

In order to overcome the above-mentioned shortcomings, it is an objective of the present application to propose a passenger whose step bushing hardly escapes without increasing its installation difficulty and whose safety is enhanced.

In order to achieve the above objective, a first technical solution according to the present application comprises a passenger conveyor. The passenger conveyor comprises a plurality of steps; a loop-shaped step chain coupling the plurality of steps; and a step shaft rotatably mounted to each of the plurality of steps, the step shaft being connected to the step chain at either end, the passenger conveyor being characterized in that a step bushing is provided between the step shaft and the step, and the step bushing is provided with a clip for engaging with the step. The clip as a whole is resilient and wedge-shaped which narrows from a free end towards a joint through which the clip connects to the step bushing.

According to a second technical solution of the present application, the passenger conveyor is characterized in that the step is provided with a shaft mounting seat, and the clip engages with the shaft mounting seat.

According to a third technical solution of the present application, the passenger conveyor is characterized in that the clip is integrally formed in the step bushing.

According to a fourth technical solution of the present application, the passenger conveyor is characterized in that the clip is formed such that it can be separated from the step bushing.

According a fifth technical solution of the present application, the passenger conveyor is characterized in that the step is provided with a fastening piece for constraining the step bushing between the step and the step shaft.

According to the passenger conveyor of the present application, the step bushing is enabled not to escape without increasing installation difficulty and the passenger

CLAIMS

1. A passenger conveyor comprising: a plurality of steps; a loop-shaped step chain coupling the plurality of steps; and a step shaft rotatably mounted to each of the plurality of steps, the step shaft being connected to the step chain at either end, wherein

a step bushing is provided between the step shaft and the step, and

the step bushing is provided with a clip for engaging with the step, and wherein the clip as a whole is resilient and wedge-shaped which narrows from a free end towards a joint through which the clip connects to the step bushing.

2. The passenger conveyor as claimed in claim 1, characterized in that

the step is provided with a shaft mounting seat, and the clip engages with the shaft mounting seat.

3. The passenger conveyor as claimed in claim 1 or 2, characterized in that

the clip is integrally formed in the step bushing.

4. The passenger conveyor as claimed in claim 1 or 2, characterized in that

the clip is formed such that it can be separated from the step bushing.

5. The passenger conveyor as claimed in claim 1, characterized in that

the step is provided with a fastening piece for constraining the step bushing between the step and the step shaft.