Claims

1. Method for building a concrete structure (3) of a passenger transport system (5) configured as an escalator or moving walkway, **characterized in that** a printer device (1) for three-dimensional concrete printing is introduced in an existing structure (7) by:
arranging a printer guide device (9) of the printer device (1) between two support points (11, 13) of the building (7) provided for supporting the passenger transport system (5);
arranging a 3D concrete printer device (15) on this printer guide device (9), which is guided along the printer guide device (9) between the two support points (11, 13); and
building a concrete structure (3) with this printer device (1) and a printing process (77) wherein said concrete structure (3) extending between the two support points (11, 13).

2. Method according to claim 1, wherein, when the printer device (1) is introduced, its printer guide device (9) can be adjusted and aligned with the two support points (11, 13), which are arranged on different floors (E1, E2) by adjustment means that are part of the printer guide device (9).

3. Method according to claim 1 or 2, wherein at least part of the printer guide device (9) remains as a reinforcement (29) or part of the reinforcement (29) in the concrete structure (3) by arranging it on the support points (11, 13) of the building (7) before the printing process (77) and the remaining part of the printer guide device (9) is inserted into the concrete structure (3) during the printing process (77).

4. Method according to claim 1 or 2, wherein the printer guide device (9) of the printer device (1) only remains temporarily between the support points (11, 13) such that it is aligned with the support points (11, 13) when it is arranged in the structure (7) before the printing process (77) and removed again after the printing process (77).

5. Method according to one of claims 1 to 4, wherein, if applicable by bearing components (35, 37), a pivot bearing (35) is formed on the concrete structure (3) at one of the two support points (11, 13) and a sliding bearing (37) is formed at the other support point (11, 13) during the printing process (77).

6. Method according to one of claims 1 to 5, wherein the concrete structure (3) comprises a U-shaped cross section (45) with two side walls (41) and a base (43) and wherein guide elements (47) for movable components of the passenger transport system (5) are formed in the side walls (41) during the printing process (77).

7. Method according to one of claims 1 to 6, wherein fastening areas (49) for components of the passenger transport system (5) are also printed, wherein at least one fastening element (51) is brought into these fastening areas (49) during the printing process (77).

8. Method according to one of claims 1 to 7, wherein reinforcement material (33) is supplied by means of a reinforcement feed device (31) of the printer device (1) during the printing process (77).