CLAIMS

1. An underframe end integration device, comprising

a sewage tank (1), wherein the sewage tank (1) is an irregular-shaped sewage tank (1) for containing sewage, and when mounted at a vehicle underframe end portion (2), the sewage tank (1) is able to be in close contact with the vehicle underframe end portion (2);

a sewage tank hanging joint (3), wherein the sewage tank hanging joint (3) is integrally formed with a traction beam (201) at the vehicle underframe end portion (2), and the sewage tank (1) is mounted on the vehicle underframe end portion (2) through the sewage tank hanging joint (3), the sewage tank (1) is provided with an inverted U-shaped plate (101), and a screw (10) passes through the inverted U-shaped plate (101) and is fixed to the sewage tank hanging joint (3),

a plurality of snap-in connectors (4) and a mounting frame (5), wherein the plurality of snap-in connectors (4) are provided and mounted on the mounting frame (5), and are configured to connect high-voltage cables (6) between adjacent carriages of the multiple-unit train with bridge cables (7) penetrating in from outside the multiple-unit train; and the mounting frame (5) is mounted on the vehicle underframe end portion (2) and is located between the sewage tank (1) and the traction beam (201); and

a movable skirt plate (8) mounted on the vehicle underframe end portion (2) and configured to cover the snap-in connectors (4), wherein the movable skirt plate (8) is slidably mounted on the traction beam (201).

2. The underframe end integration device according to claim 1, wherein the sewage tank (1) surrounds the sewage tank hanging joint (3).

3. The underframe end integration device according to claim 1, wherein the mounting frame (5) comprises a horizontal mounting plate (501) and a vertical mounting plate (502) which are vertically connected;

the horizontal mounting plate (501) is mounted on the vehicle underframe end portion (2);

and

the snap-in connectors (4) are uniformly distributed on the vertical mounting plate (502).

4. The underframe end integration device according to claim 1, wherein the traction beam (201) and the sewage tank hanging joint (3) are in an integrated extrusion profile structure.

5. The underframe end integration device according to claim 4, wherein the sewage tank (1) and the sewage tank hanging joint (3) are detachably connected by profile nuts (9) and screws (10).

6. The underframe end integration device according to claim 1, wherein the sewage tank (1) is provided with an inlet pipe in communication with a sewage discharge pipe of the multiple-unit train;

the bottom of the sewage tank (1) is provided with a sewage outlet for discharging sewage in the sewage tank (1), and the sewage outlet is provided with a cover for opening and closing the sewage outlet; and/or,

the sewage discharge pipe is further provided with a switch valve, and the sewage discharge pipe is further connected with a purge pipe, wherein the purge pipe is positioned between the switch valve and the inlet pipe, and an inlet of the purge pipe is able to be connected to an air source.

7. A multiple-unit train, comprising the underframe end integration device according to any one of claims 1 to 6.