CLAIMS

What is claimed is:

1. A base station (1), adapted for cooperating with a cleaning robot (2) having a mop member (22111) that is configured to mop a floor, the base station (1) comprising a base station body (10) and a mop member cleaning device (11) arranged on the base station body (10), and the mop member cleaning device (11) being configured to clean the mop member (22111);

wherein, the base station (1) further comprises a cleaning fluid supply device (12) configured to supply cleaning fluid for cleaning the mop member (22111); and a dirty fluid collection device (13) configured to collect the cleaning fluid after the base station (1) cleaning the mop member (22111);

wherein, the mop member cleaning device (11) comprises a cleaning notch (111) and a fluid inlet structure (113) disposed at a bottom of the cleaning notch (111), and the fluid inlet structure (113) is configured to conduct and spray the cleaning fluid on the mop member (22111) for cleaning the mop member (22111).

2. The base station (1) of claim 1, wherein, the cleaning notch (111) is configured to place the mop member (22111) during the process of the mop member cleaning device (11) cleaning the mop member (22111).

3. The base station (1) of claim 2, wherein, the mop member cleaning device (11) further comprises a fluid discharge structure (114) configured to discharge dirty cleaning fluid after cleaning the mop member (22111) outside of the cleaning notch (111).

4. The base station (1) of claim 3, wherein, an amount of the fluid inlet structure (113) is two, and the two fluid inlet structures (113) are arranged with respect to a central axis of a width direction of the mop member cleaning device (11).

5. The base station (1) of claim 4, wherein the two fluid inlet structures (113) are symmetrically arranged with respect to the fluid discharge structure (114).

6. The base station (1) of claim 3, wherein, the cleaning fluid supply device (12) is connected with the fluid inlet structure (113), and the dirty fluid collection device (13) is connected with the fluid discharge structure (114).

7. The base station (1) of claim 1, wherein, the cleaning fluid supply device (12) comprises a first storage unit (121) and a first power device, the first storage unit (121) is configured to store the cleaning fluid, the first power device is configured to drive the cleaning fluid to flow to the cleaning notch (111) from the first storage unit (121); and, the dirty fluid collection device (13) comprises a second storage unit (131), the second storage unit (131) is configured to store the cleaning fluid after cleaning the mop member (22111).

8. The base station (1) of claim 7, wherein, the cleaning fluid supply device (12) and the dirty fluid collection device (13) are arranged at a top of the base station body (10) and respectively located at left and right sides of the base station body (10);

the dirty fluid collection device (13) further comprises a second power device, the second power device is configured to pump the cleaning fluid after cleaning the mop member (22111) into the second storage unit (131) for the purpose of storage.

9. The base station (1) of claim 8, wherein, the base station body (10) comprises a supporting frame (101) and a supporting-frame bottom lid (102) disposed at a bottom of the supporting frame (101);

the cleaning fluid supply device (12) and the dirty fluid collection device (13) are disposed on the supporting frame (101), and located on two sides of the supporting frame (101).

10. The base station (1) of claim 7, wherein, the first storage unit (121) and the second storage unit (131) each comprises:

a bin body (1211);

a bin lid (1212), covered at a top opening of the bin body (1211);

a handle (1213), disposed on the bin lid (1212); and

a buckle (1214) arranged at a position where the bin body (1211) is in contact with the bin lid (1212).

11. The base station (1) of claim 7, wherein, the second storage unit (131) is arranged below the cleaning notch (111) and connected with the cleaning notch (111).

12. A cleaning robot system, comprising a cleaning robot (2), the cleaning robot (2) comprising a moving device (21) that is configured to drive the cleaning robot (2) to move on

floor, and a cleaning device (22) that is configured to clean the floor, the cleaning device (22) comprising a mop device (221), the mop device (221) comprising at least one mop unit (2211), the at least one mop unit (2211) comprising a mop member (22111) that is configured to mop the floor, wherein, the cleaning robot system further comprises a base station (1) according to any of claims 1-11.

13. The cleaning robot system of claim 12, wherein, the cleaning robot system further comprises a lifting mechanism (24), the lifting mechanism (24) is arranged on the cleaning robot (2) and/or the base station (1), the lifting mechanism (24) is configured to lift a forward end and/or a rearward end of the cleaning robot (2).

14. The cleaning robot system of claim 12 or 13, wherein, the moving device (21) comprises a moving wheel (211), the cleaning robot (2) comprises a suspension device and a chassis (202), the suspension device is arranged at the moving wheel (211) for elastically connecting the moving wheel (211) and the chassis (202) to keep the moving wheel (211) in contact with the floor.

15. The cleaning robot system according to claim 12 or 13, wherein, the mop device (221) further comprises a mop drive mechanism (2212), the cleaning robot (2) comprises a chassis (202), the mop drive mechanism (2212) is configured to drive the mop member (22111) of the mop unit (2211) to rotate relative to the chassis (202), and/or, the mop drive mechanism (2212) is configured to drive the mop member (22111) of the mop unit (2211) to horizontally reciprocate relative to the chassis (202).

16. The cleaning robot system of claim 15, wherein, an amount of the at least one mop unit (2211) is one, the mop drive mechanism (2212) is configured to drive the mop member (22111) of the mop unit (2211) to rotate and/or horizontally reciprocate relative to the chassis (202).

17. The cleaning robot system of claim 15, wherein, an amount of the at least one mop unit (2211) is two, that is, two mop units (2211) are included, the mop drive mechanism (2212) is configured to drive the mop members (22111) of the two mop units (2211) to rotate around a vertical axis; wherein, the mop members (22111) of the two mopping units (2211) are rotatable in a same direction or in opposite directions around the vertical axis relative to the chassis (202), or, the mop members (22111) of the two mopping units (2211) are alternately rotatable in the same

direction or in opposite directions around the vertical axis relative to the chassis (202).