受験番号:32IPM027

間1

[0001]

The present invention relates to cleaning a bathwater heater using the water pressure of tap water pressure and a cleaning tool.

[0002]

Conventionally, methods for cleaning a bathwater heater have been only methods in which a hot water contact portion in a bathtub is removed and the bathwater heater is cleaned by strongly pouring water into the bathwater heater using a vinyl hose, or the bathwater heater is cleaned with a commercially available carbonated chemical, etc.

[0003] The methods have the following drawbacks.

(i) Even when water is strongly poured using a vinyl hose, sludge is not completely removed and accumulates immediately.

(ii) Chemical cleaning is difficult to use.

(iii) Chemical cleaning is expensive for one use.

(iv) Water pollution is caused.

(v) In particular, milky bathwater makes the bathwater heater, and, when reheating is performed while a bath is taken, a rattling sound is made and sludge comes out from a hot water gate, which is very dirty and unsanitary.

The present invention has been made to eliminate these drawbacks.

[0004]

The present invention is directed to a bathwater heater cleaning tool for cleaning a bathwater heater using tap water pressure, which includes a stepped pipe (1) made of resin, a nozzle portion (2), and a cleaning member provided at the tip of the nozzle portion (2) and composed of a sponge (3) for removing dirt

問2.

[0016]

FIG. 2 is a plan view illustrating a type-1 jig 2a, shows a jigsaw body 1 in a transparent manner for detailed description, and represents a positional relationship

between a base plate 1a, a circular guide 8, a jigsaw blade 10 of a cutter, and the type-1 jig 2a.

[0017]

The type-1 jig 2a is made of metal and includes fixing metal fittings 3 on a back surface thereof at both ends thereof. A diagonal slider 4 that slides on a half-angle 45-degree line at a right angle portion of a plate material is fixed to the upper surface of the type-1 jig 2a such that whether to fix the diagonal slider 4 by two guide blocks equipped with set screws or make the diagonal slider 4 slidable is selected. The diagonal slider 4 has an end portion 5 with an arrowhead shape, and a rotary bearing 6 to which a connection end of the circular guide 8 dedicated for a jigsaw 1 is rotatably connected is provided in the end portion 5.

[0018]

FIG. 3 is a front view of the type-1 jig, showing that the fixing metal fittings 3 are located on the back surface side of adjacent A side and B side of the right angle portion, to be subjected to quadrant processing, of the plate material so as to hold the plate material, and also showing a connection state of the rotary bearing 6 in the end portion 5 and the circular guide 8.

[0019]

When installing the type 1 jig 2a on the plate material, the arrowhead-shaped end portion 5 of the diagonal slider 4 is slid to be aligned with the apex G of the right angle portion, and then the two screw-type fixing metal fittings 3 on the back surface side of the plate material are fixed to the plate material. As a result, the position of the rotary bearing 6 located in the end portion 5 of the diagonal slider 4 constantly moves on the 45-degree line in a slidable range. Therefore, the distances from the rotary bearing 6 to the A side and the B side are equal to each other regardless of the position of the rotary bearing 6, and quadrant processing with a high degree of completion is achieved by one cutting when, in a state where a side surface of the cutting blade 10 of the jigsaw 1 is aligned with a cutting start position for the A side or the B side and the set screws 7 of the guide blocks for guiding the diagonal slider 4 and a set screw 9 of a guide block for the circular guide are locked, the plate material is cut while the jigsaw 1 is moved to the other side along the turning radius of the circular guide 8. ☑ 245-DEGREE LINE

問3.

1. A fertilizer spreader comprising:

a body F travelling by itself or by towing;

an impeller 4 rotating about a vertical axis;

an impeller case C in which the impeller 4 is housed;

a hopper H including an agitator 5 rotating about the vertical axis, in an inner space thereof;

a rotation shaft 20 for the agitator 5 in the hopper H;

a central drive shaft 2 axially mounted to the body F such that an upper end side thereof protrudes into the hopper H;

a clutch K freely "engaged" and "disengaged";

an outer cylinder shaft 3 fitted to an outer periphery on a lower end side of the central drive shaft 2 to be axially mounted to the body F;

an input shaft 1; and

conduction mechanisms d1 and d2, wherein

the impeller case C and the hopper H are mounted to the body F so as to be stacked on top of each other such that the hopper H is located above the impeller case C,

the rotation shaft 20 is conducted to the central drive shaft 2 via the clutch K, the impeller 4 in the impeller case C has a shaft core portion connected to the outer cylinder shaft 3, and

the central drive shaft 2 and the outer cylinder shaft 3 are conducted to the input shaft 1 via the conduction mechanisms d1 and d2, respectively, such that the impeller 4 and the agitator 5 are driven so as to rotate at different rotation speeds.