What is claimed:

1. A hot-pot basin cleaning apparatus comprising a rack (1), wherein a hot-pot basin conveying mechanism (2) is mounted on the rack (1), and a hot-pot basin cleaning mechanism (3) is arranged between the feeding end and the discharging end of the hot-pot basin conveying mechanism (2); wherein the hot-pot basin cleaning mechanism (2) comprises a medium-pressure washing device for cleaning food residue and oil in the hot-pot basin (5), and a high-pressure rinsing device for cleaning the burnt or scaled residue in the hot-pot basin (5); wherein the medium-pressure washing device is installed at the feeding end of the hot-pot basin cleaning mechanism (3), and the high-pressure rinsing device is installed at the discharging end of the hot-pot basin cleaning mechanism (3); wherein the medium-pressure washing device comprises a medium-pressure washing arm (302), a plurality of medium-pressure washing nozzles (303) are mount on the medium-pressure washing arm (302), and the plurality of medium-pressure washing nozzles (303) are disposed upward; wherein the plurality of the medium-pressure washing nozzles (303) are arranged in a fan pattern along a transverse direction of the hot-pot basin conveying mechanism (2), and the water pressure of the medium-pressure washing nozzle (303) is 0.2 MPa to 0.8 MPa; wherein the high-pressure rinsing device comprises a driving motor (304) mounted on the rack (1), a crank (305) mounted on an output shaft of the driving motor (304), a connecting rod (306) hinged on the crank (305), and a rocker (307) hinged on the other end of the connecting rod (306), wherein the lower end of the rocker (307) is hinged to the rack (1), and the crank (305), connecting rod (306) and rocker (307) together constitute a crank-rocker mechanism, and a high-pressure nozzle (308) is mounted on the upper end of the rocker (307), and the water pressure of the high-pressure nozzle (308) is 10 MPa to 20 MPa; wherein the swinging direction of the high-pressure nozzle (308) is perpendicular to the conveying direction of the hot-pot basin conveying mechanism (2) and the high-pressure nozzle (308) is single; wherein the hot-pot basin conveying mechanism (2) comprises two parallel straight-plate chains driven by a conveying motor, and the nozzles of the medium-pressure washing device and the high-pressure rinsing device are installed between the two straight-plate chains; wherein each side of the hot-pot basin conveying mechanism (2) is mounted with a limiting stopper (6) for limiting lateral displacement of the hot-pot basin (5); wherein the discharge end of the hot-pot basin conveying mechanism (2) is provided with an anti-locking device (7) for preventing the hot-pot basin (5) from being seized on the straight-plate chains (201)..

2. The hot-pot basin cleaning apparatus of claim 1, wherein the hot-pot basin cleaning mechanism (3) further comprises a washing water tank (301) installed on the rack (1), and the washing water tank (301) is respectively connected to the medium-pressure washing device and the high-pressure rinsing device.

3. The hot-pot basin cleaning apparatus of claim 1, wherein a sump tank (4) is arranged under the hot-pot basin cleaning mechanism (3).

4. The hot-pot basin cleaning apparatus of anyone of claims 1-3, wherein the hot-pot basin cleaning mechanism (3) is provided with a pressing bar (309), and a vertical distance between the pressing bar (309) and the hot-pot conveying mechanism (2) is greater than a height of the hot-pot basin (5).