Claims

1. A hydropower recycle system, comprising a turbine device, a power generating device and a rooftop water tank, wherein the turbine device and the power generating device are both provided on the top of the rooftop water tank, and a water inlet is provided on the top of the rooftop water tank,

the turbine device comprises a turbine housing, a turbine, a high-pressure nozzle and a turbine rotating shaft, wherein the turbine housing is provided above the water inlet, a water outlet is provided at the bottom of the turbine housing and the outlet is communicated with the water inlet, the turbine is provided inside the turbine housing, the turbine rotating shaft passes through the turbine housing, a part of the turbine rotating shaft located in the turbine housing is connected with the turbine, one end of the turbine rotating shaft extending out of the turbine housing is transmittingly connected to an input shaft of the power generating device, the high-pressure nozzle is fixedly provided on a sidewall of the turbine housing, with one end being communicated with an external intake pipe, and the other end passing through the sidewall of the turbine housing to the inside of the turbine housing and being aligned with the turbine,

wherein the turbine comprises a turbine body and turbine fan blades, wherein the turbine fan blades are uniformly arranged in a circumferential direction on the outer side of the turbine body, a circular hole is provided in the center of the turbine body, and the turbine rotating shaft is interference fit with the circular hole,

wherein the high-pressure nozzle comprises two nozzles, i.e., a first high-pressure nozzle and a second high-pressure nozzle, wherein the first high-pressure nozzle and the second high-pressure nozzle are disposed opposite to each other on both sides of the turbine housing,

wherein the first high-pressure nozzle is provided at the bottom of the turbine housing for aligned jetting the bottom of the turbine fan blades, and the second high-pressure nozzle is provided at the top of the turbine housing for aligned jetting the top of the turbine fan blades, further comprising a plumbing device, the plumbing device comprising a first water pipe, a second water pipe and a third water pipe, wherein the second water pipe is provided between the first water pipe and the third water pipe, a first water valve is provided between the second water pipe and the first water pipe, a second water valve is provided between the second water pipe and the third water pipe, the second water pipe is communicated with the intake pipe, an

outlet end of the first water pipe is communicated with the first high-pressure nozzle, and an outlet end of the third water pipe is communicated with the second high-pressure nozzle.

2. The hydropower recycle system as claimed in claim 1, further comprising a water flow safety device, the water flow safety device comprising a fourth water pipe and a third water valve, wherein the fourth water pipe is communicated with the second water pipe via an intake pipe at one end and is communicated with the rooftop tank at another end, the third water valve is provided between the fourth water pipe and the second water pipe.

3. The hydropower recycle system as claimed in claim 2, wherein the first water pipe and the third water pipe are pressurized water pipes, and the second water pipe and the fourth water pipe are standard water pipes.

4. The hydropower recycle system as claimed in claim 1, wherein the power generating device is a generator, the rooftop water tank is provided with a fixed block at the top, and the generator is provided on the fixed block.

5. The hydropower recycle system as claimed in claim 1, wherein the number of the rooftop water tank is one or two, and the number of the turbine device and the power generating device matches the number of the rooftop water tank.

6. The hydropower recycle system as claimed in claim 5, wherein the number of the rooftop tank is two, and the two rooftop tanks are provided side by side.