

Device for Sludge Dewatering**ABSTRACT**

The embodiment of the invention provides a sludge dewatering device, belonging to the field of sludge processing equipment. The device comprises a frame, an anode drum, a cathode filter screen, a guide roller and a drive roller. The anode drum, which is metal, is arranged inside the frame and electrically connected with the anode of a power source; the cathode filter screen is a nonmetal spiral mesh; a plurality of metal wires arranged inside the spiral drum of the nonmetal spiral mesh are used as conductive bodies; each metal wire crosses through the nonmetal spiral mesh, and both ends thereof extend out of the nonmetal spiral mesh; each metal wire is electrically connected with the cathode of the power source; the drive roller and the guide roller are arranged on the frame; the cathode filter screen driven by the drive roller is arranged on the drive roller and the guide roller; and one part of the cathode filter screen is surrounded outside the anode drum, thus forming a clearance with the anode drum to extrude the sludge. As the sludge dewatering device has large water filtering area in the cathode, the sludge dewatering device improves the dewatering efficiency and prolongs the service life of the cathode filter screen.

Fig. 1

DRAWINGS for Abstract