

SOIL AND WATER SEPARATION DEVICE

ABSTRACT

A soil and water separation device comprises a main body, a transmission member, a plurality of filtering plates, and a storing member. After the soil and water separation device is activated, the motor drives the shaft to operate the transmission member and the filtering plates radially arranged on the rotator of the transmission member are soaked in the slurry and wastewater. The filtering plates rotate to make the connection tube close to the connection pipe and the air pump vacuums with the second transmission pipe. The filtering plates rotate to the scrapers and the blades on the scraper frame scrape the impurities on the filtering plates. The impurities are discharged to the holding member by the arrangement of the discharge gates and the stop plates. And then, the water pump draws out the high-pressure water through the first transmission pipe to flush the impurities from the filtering plates.

FIG. 1