

a 2004 0210

The invention relates to an anaerobic reactor and may be used in different branches of agriculture and in the processing industry for sewage water treatment and biogas obtaining.

The anaerobic bioreactor includes a body with conic base, branch pipes for sewage water inlet and for treated water outlet, a biogas discharge system, a charge and a system for recirculation of the treated water. The bioreactor is equipped with nets transversally placed about the longitudinal axis of the body, limiting the charge layer, and with a chute for treated water outlet, placed round the inner edges of the body. The system for recirculation of the treated water includes a vertical tube placed in the center of the body and centering plates having one end rigidly fixed to the inner surface of the body and the other end, by means of rolls, supporting the tube. The lower part of the tube is made in the form of an overturned funnel and the upper one communicates with the distributing branch pipes, which are joined with a rod, connected to a crank drive. The branch pipe for treated water outlet is provided with a siphon drain device and a valve for water jet breakage.

Claims: 1

Fig.: 1