

WASTE FLUID TREATMENT USING FILAMENTOUS FUNGUS OR ACTINOMYCETE

ABSTRACT OF THE DISCLOSURE

The present application provides a higher grade purification method of waste fluid in decomposition of organic substances than the conventional active sludge method using monocellular microorganisms. The method includes a first step of growing a filamentous fungus and/or actinomycete on a porous or fibrous carrier made of polypropylene or polyethylene by solid fermentation. Then the carrier including the grown filamentous fungus and/or actinomycete is loaded into waste fluid for purification of the waste fluid. The carrier is preferably first soaked with a nourishing starch solution and then a filamentous fungus and/or actinomycete is grown by solid fermentation such that a hyphal membrane covers the surface of the carrier.

Figure 1