PHOTOCATALYTIC REACTOR

ABSTRACT

A photocatalytic reactor (1) for carrying out a photocatalytic reaction on a liquid which is to be treated, the reactor comprising a reaction chamber (2) which comprises: (i) a foraminated member (10) which supports a plurality of mobile photocatalyst particles, the size and density of which is such that they tend to rest on the foraminated member (10) in use; and (ii) an aeration device (14, 16, 18) which causes gas bubbles to rise from the foraminated member and agitate the mobile photocatalyst particles. The reactor may be a flow-through reactor. The photocatalytic reactor can be applied to the remediation of waste water using titanium oxide.

[Fig. 1]