

Device and method for disinfecting a fluid by means of UV light

Abstract

5 The invention relates to a device for disinfecting a fluid by means of UV light, comprising a container (1); a reactor chamber (3), which is arranged in the container (1) and adapted to receive a fluid to be disinfected; an inlet (4), via which the fluid can be introduced into the reactor chamber (3); an outlet (5), via which the fluid can leave the reactor chamber (3); and an irradiation device (2), which is adapted to provide UV-light rays and to irradiate into the reactor chamber (3) in
10 order to disinfect the fluid therein; wherein the reactor chamber (3) with the inlet (4) and the outlet (5) is adapted to transport the fluid by means of a turbulent streamflow from the inlet (4) to the outlet (5) and a fluid guide device (9) facilitating the formation of the turbulent streamflow is provided which has a fluid-guiding element (10) in a reactor chamber area adjacent to the inlet (4), said fluid-guiding element (10) being configured so as to minimize a non-turbulent stream-
15 flow toward the outlet (5) and by this means to intensify the turbulent streamflow. Moreover, a method for disinfecting a fluid by means of UV light is provided.

(Fig. 2)