

Title (en)
IRRADIATION PROCESS, MULTICHAMBER PHOTOREACTOR

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Application
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Priority
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Abstract (en)
[origin: ES471983A1] Various embodiments of photoreactors are disclosed which have at least two irradiation chambers with a window therebetween. Ultraviolet radiation is introduced into one of the chambers at a side opposite the window so that it passes through that chamber, through the window and into the other chamber. The fluid medium to be purified is passed through the chambers and subjected to the radiation while in the chambers. The flow of the medium is through the chambers in series in some embodiments and in parallel in others. An embodiment is disclosed wherein a recirculation line is established around the reactor with the recirculation being continuous or intermittent. When intermittent the purified fluid medium also is drawn off intermittently, between the periods of recirculation. In some embodiments the amount of radiation traversing all the chambers is monitored. If the monitored amount drops below a given amount, the apparatus is shut down. Alternatively, the rate of flow of the medium is adjusted, based on that monitored amount, with the rate of flow increasing or decreasing, respectively, in response to increases or decreases in that amount.

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