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[Continued on next page]

(54) Title: SYSTEM AND PROCESS FOR THE REMOVAL OF FLUOROchemicals FROM WATER

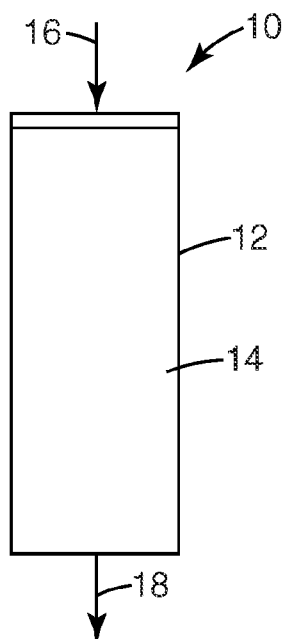


Fig. 1

(57) Abstract: Systems and processes for the removal of fluorochemicals from water are provided. Systems according to the invention include a vessel containing the ion exchange resin, the ion exchange resin including an insoluble matrix having functional groups bonded to the matrix, the functional groups being amines of the formula: $N(R_1R_2R_3)$ Where N is nitrogen; and R_1 , R_2 and R_3 are hydrocarbon groups and can be the same or different, normal, branched and/or partially or fully substituted (e.g., fluorinated) and having a carbon chain length of C_1 or greater, the hydrocarbon chain optionally including polar groups (e.g., O, N, S). An inlet for directing a flow of water into the vessel is provided to facilitate contact between the water and the ion exchange resin; and an outlet is provided to direct a flow of water out of the vessel after the water is treated. A process for the removal of fluorochemicals from water is also provided by exposing water to the foregoing ion exchange resin, maintaining the water in contact with the resin for a period of time, and thereafter separating the water from the resin.

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