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(54) **Title:** WATER TREATMENT DEVICE AND METHOD

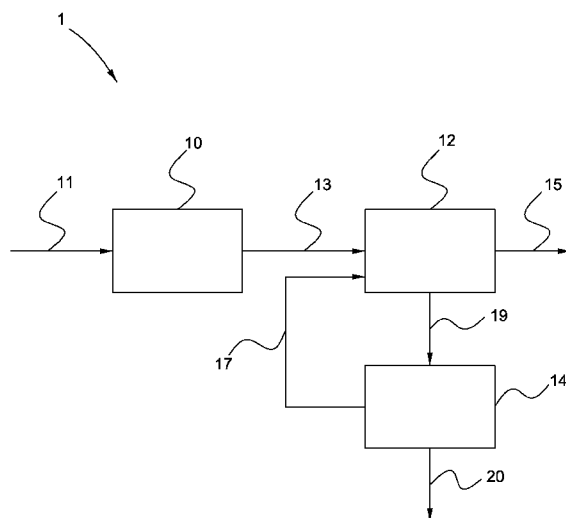


FIG. 1

(57) **Abstract:** A water treatment device comprises: an electro-coagulation (EC) unit (10) for treating a stream of feed water (11) to produce a stream of EC treated water (13) of lower salinity than the stream of feed water, an electrical separation unit (12) for treating the stream of EC treated water (13) to obtain a stream of product water (15) of lower salinity than the EC treated water (13); and a precipitation unit (14) for providing a stream of wash water (17) to wash the electrical separation unit (12) and become a stream of reject water (19) flowing back to the precipitation unit (14), wherein precipitation in the precipitation unit produces the stream of wash water of lower salinity than the stream of reject water. An associated method is also provided.



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