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(54) Title: METHOD FOR REDUCING METAL ION CONCENTRATION IN BRINE SOLUTION

(57) Abstract: This invention relates to a method for removing impurities from a brine solution, the brine solution comprising a water soluble chelating agent, the method comprising the steps of: a) adjusting the pH of the brine solution to a pH of from about 2 to about 4; b) passing the brine solution through a first functionalized resin; the first functionalized resin having functional groups capable of removing multivalent metal cations from the brine solution; c) adjusting the pH of the brine solution to a pH of from about 9 to about 11.5; and d) passing the brine solution through a second functionalized resin; the second functionalized resin having functional groups capable of removing alkaline earth metal cations from the brine solution.