

ABSTRACT (FIG. 1)

"FLUORINE RECOVERING APPARATUS AND
METHOD FOR RECOVERING FLUORINE"

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According to one embodiment, a fluorine recovering apparatus includes a precipitating device configured to allow fluoride ion-containing water to be treated to react with calcium source to form precipitate, a mixing
10 tank mixing a filter aid including particles of a magnetic material having a diameter of 0.5 to 5 μm with a dispersion medium to produce slurry, a filter aid feeder to the mixing tank, a solid-liquid separator with a filter configured to receive the slurry to
15 deposit a filter aid layer, and to receive water containing precipitate to deposit the precipitate on the filter aid layer, a cleaning mechanism configured to remove the filter aid and the precipitate, a separating tank separating the filter aid and the
20 precipitate, and a returning mechanism returning the filter aid to the filter aid feeder.