# SILICA FOULING INHIBITION METHOD AND SILICA FOULING INHIBITOR FOR REVERSE OSMOSIS MEMBRANE SYSTEM

## ABSTRACT

A silica fouling inhibition method for a reverse osmosis membrane system is provided, in which an acrylic acid-based polymer and/or a maleic acid-based polymer; and a combined chlorine-based oxidizing agent and/or a combined bromine-based oxidizing agent are allowed to be present in water to be treated. A silica fouling inhibitor for a reverse osmosis membrane system is provided, the silica fouling inhibitor includes: a copolymer of acrylic acid and 2-acrylamide-2-methylpropanesulfonic acid and/or a terpolymer of acrylic acid, acrylamide methylpropanesulfonic acid, and N-substituted acrylamide; and a combined chlorine-based oxidizing agent and/or a combined bromine-based oxidizing agent.

FIG. 1