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(54) Title: THE PROCESS OF USING DEMINERALIZED WATER FOR CHLORATE REDUCTION IN ON-SITE BRINE ELECTROCHLORINATION SYSTEMS

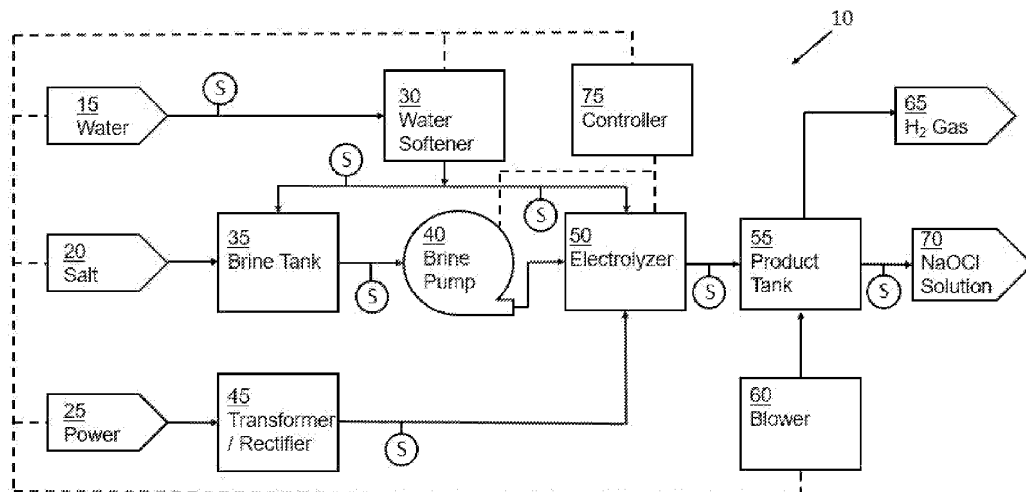


FIG. 1

(57) Abstract: An electrochlorination process includes treating water from a source of water in an advanced water conditioning system that removes at least a portion of anions and cations from the water and produces demineralized water, blending the demineralized water with sodium chloride to form a brine solution, and treating the brine solution in an electrolyzer to form a disinfection solution including sodium hypochlorite having a concentration of chlorate of less than 0.25 mg/L.

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