

**SYSTEMS AND METHODS FOR CONTROLLING  
CHLORATE PRODUCTION IN ELECTROLYTIC CELLS**

**ABSTRACT**

Provided are systems and methods for controlling the production of chlorate in electrolytic cells. The methods can produce a hypochlorite-containing solution having a chlorate to free available chlorine ratio of less than 0.1 by contacting a flow of a chloride- containing brine to an aqueous feed stream so as to give rise to an admixture. The disclosed technology also includes modulating at least one of the flow rate of the chloride-containing brine and the chloride concentration of the chloride-containing brine so as produce the hypochlorite-containing product solution.

FIG. 2