CLAIMS

What is claimed is:

1. An electrochemical cell comprising:

a first chamber having an inlet and an outlet;

an anode disposed within the first chamber;

a second chamber having an inlet and an outlet;

a cathode disposed within the second chamber; and

at least one ionic connection between the first chamber and the second chamber, the ionic connection constructed and arranged to prevent liquid electrolyte in the first chamber from mixing with liquid electrolyte in the second chamber,

the first chamber and the second chamber arranged in parallel and positioned remotely from each other,

wherein the ionic connection comprises at least one of a salt bridge and an ion-permeable membrane,

wherein the resistance per area of the ion-permeable membrane is 0.1 Ω/mm^2 or less.