

APPARATUS AND METHOD FOR CONTROLLING NUCLEATION DURING ELECTROLYSIS

Abstract

In one embodiment of the present invention an electrolytic cell is provided comprising: a containment vessel; a first electrode; a second electrode; a source of electrical current in electrical communication with the first electrode and the second electrode; an electrolyte in fluid communication with the first electrode and the second electrode; a gas, wherein the gas is formed during electrolysis at or near the first electrode; and a separator; wherein the first electrode is configured to control the location of nucleation of the gas by substantially separating the location of electron transfer and nucleation.

Fig 1