Process and Apparatus for the Electrolytic Reduction of Sulfur Dyes

Abstract

The present invention concerns a process for the electrolytic reduction of sulfur dyes, comprising the steps of providing an aqueous catholyte comprising at least one sulfur dye, providing an electrolytic cell with an anode disposed in an anolyte in an anolyte compartment, a cathode disposed in a catholyte in a catholyte compartment and an electrochemical separator between anolyte compartment and catholyte compartment and applying a potential between the anode and the cathode which is above the value at which hydrogen is generated, characterized in that the catholyte does not comprise any inorganic or organic reduction agents. The invention further concerns an Apparatus for the application of that process and the use of an electrolytic cell for the reduction of a dye liquor comprising sulfur dyes.