Title (en)

METHOD OF PREVENTING UNDESIRABLE GAS GENERATION BETWEEN ELECTRODES OF AN ELECTROCO-AGULATION PRINTING SYSTEM

Publication

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Application

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Priority

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Abstract (en)

[origin: EP0253358A2] The invention is concerned with a method of preventing undesirable gas generation between a pair of opposite, electrically energized negative and positive electrodes spaced from one another by a gap filled with an aqueous electrolyte solution. According to the invention, the positive electrode is coated with an olefinic substance to form micro-droplets thereof on the surface of the positive electrode prior to electrically energizing the electrodes such that upon electrical energization gas generated as a result of electrolysis is consumed by reaction with the olefinic substance, the reaction being carried out in the presence of a metallic oxide catalyst. In this manner, undesirable gas generation between the electrodes is prevented. The method of the invention is particularly useful in electrocoagulation printing systems where an image is reproduced by electrocoagulation of an electrolytically coagulable colloid on a positive electrode to form dots of coagulated colloid representative of a desired image, the invention enabling the electrical resistance which is created at the interface of the negative electrode by the accumulation of hydrogen and causes an erratic formation of the dots of coagulated colloid to be suppressed.

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