

a 2005 0321

The invention relates to electrochemistry, namely to processes for hydrogen obtaining by electrolysis. Summary of the invention consists in that through an electrolytic cell with metal electrodes there is advanced direct electric current to provide the conditions necessary for water decomposition into hydrogen ions in the solutions of the alkaline metal strong acid salts, like sodium chloride, and reduction of hydrogen ions into atoms. The electrolytic cell anode is made of metal. This electrode is consumed during the hydrogen obtaining process. The electrolysis process is carried out at the application to the cell of a voltage smaller than the voltage necessary for water decomposition.

Claims: 1