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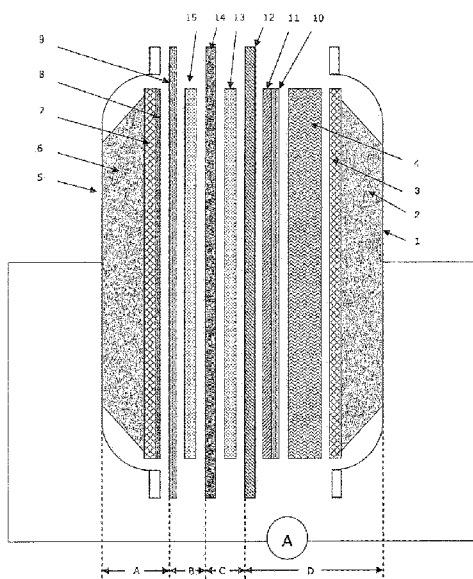


FIG. 1

(57) Abstract: The invention relates to a salt solution electrodialysis cell for production of the relevant acids and bases by means of a process with reduced or nil consumption of electrical energy. The cell comprises an anodic chamber fed with hydrogen and a cathodic chamber fed with oxygen or air, provided with the relevant gas-diffusion electrodes; the driving power of the electrodialysis process is given by the oxidation and reduction chemical potentials of hydrogen and oxygen fed to the two chambers.