

**PATENT NO. 372370**  
**ELECTROLYSIS OF STARCH-BASED ELECTROLYTES**

**APPLICATION NO.** 1664/DEL/2012

**APPLICANT**  
Banaras Hindu University

**ABSTRACT**

Described is an apparatus and a method for electrolysis of a starch-based electrolyte. The apparatus (100) includes a voltage source (106), and two electrodes (104- I, 104-2) respectively coupled to a positive terminal of the voltage source (106) and a negative terminal of the voltage source (106). The apparatus (100) also includes a starch-based electrolyte (102) in contact with the two electrodes (104-1, 104-2) to apply a predefined electric potential across the starch-based electrolyte (102) from the voltage source (106), where the starch-based electrolyte (102) absorbs moisture from a humid surrounding.

**INVENTOR**

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**CLAIM 1**

An apparatus (100) comprising a voltage source (106); two electrodes (104-1, 104-2) respectively coupled to a positive terminal of the voltage source (106) and a negative terminal of the voltage source (106); and a starch-based electrolyte (102) in contact with the two electrodes (104-1,104-2) to apply a predefined electric potential across the starch-based electrolyte (102) from the voltage source (106), wherein the starch-based electrolyte (102) absorbs moisture from a humid surrounding.