

Title (en)  
METHOD FOR PRODUCING HYDROGEN

Title (de)  
VERFAHREN ZUR HERSTELLUNG VON WASSERSTOFF

Title (fr)  
PROCEDE DE PRODUCTION D'HYDROGENE

Publication  
**EP 1569868 A1 20050907 (EN)**

Application  
**EP 03767339 A 20031210**

Priority  
• CA 0301908 W 20031210  
• CA 2414135 A 20021212

Abstract (en)  
[origin: WO2004052775A1] The process for producing hydrogen gas according to the present invention consists of reacting aluminum (78) with water (70) in the presence of sodium hydroxide as a catalyst. In one aspect of the present invention, there is provided a process for producing hydrogen gas, comprising the steps of: providing an aqueous solution containing between 0.26M and 19M NaOH in a vessel. The next step consists of reacting aluminum with water at the surface of the solution to generate a region of effervescence at the surface of the solution and a precipitate sinking from the region of effervescence to the bottom of the vessel. The region of effervescence is kept separated from the precipitate at the bottom the vessel, to prevent any precipitate from mixing with the aluminum therein.

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**C01B 3/08**; **B01J 7/02**; **C01F 7/42**; **B01J 19/18**; **B01J 8/00**

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