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(54) Title: A METHOD FOR THE PRODUCTION OF HYDROGEN

(57) Abstract: The present invention relates to a process of producing hydrogen gas from water, an iron- containing coal combustion product and carbon dioxide or a carbon dioxide precursor. The process is a spontaneous process that does not involve the implementation of external heating or electricity. The process further provides the recycling of the coal combustion product such as an iron slag or ash and may also be used for carbon dioxide sequestering.



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