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(54) Title (EN): CUMG2-YLIX ALLOY FOR HYDROGEN STORAGE

(54) Title (FR): ALLIAGE CUMG2-YLIX POUR STOCKAGE D'HYDROGENE

(57) Abstract:

(EN): The present invention refers to the ability of a metallic alloy to store hydrogen. Particularly, the present invention refers to the ability of an alloy, with hexagonal structure, to store, in reversible way, high amounts of hydrogen at temperatures and pressures that make an industrial applicability feasible. The present invention is applicable, e.g. for hydrogen storage - hydrogen fuel cells - with great applicability in the automobile industry.

(FR): La présente invention concerne l'aptitude d'un alliage métallique à stocker l'hydrogène. Plus particulièrement, cette invention concerne l'aptitude d'un alliage présentant une structure hexagonale à stocker de manière réversible des grandes quantités d'hydrogène à des températures et à des pressions permettant des applications industrielles. L'alliage décrit dans cette invention peut s'appliquer, par exemple, pour le stockage d'hydrogène (les piles à combustible à base d'hydrogène) pour le stockage d'hydrogène et il peut s'appliquer tout particulièrement à l'industrie automobile.

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Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes of the designation of the United States of America