

ABSTRACT OF THE DISCLOSURE

NANOTIZATION OF MAGNESIUM-BASED HYDROGEN STORAGE MATERIAL

The invention utilizes a carbon nano material to nanotize a magnesium-based
5 hydrogen storage material, thereby forming single or multiple crystals to enhance the
surface to volume ratio and hydrogen diffusion channel of the magnesium-based
hydrogen storage material. Therefore, the hydrogen storage material has higher
hydrogen storage capability, higher absorption/desorption rate, and lower
absorption/desorption temperature.

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Figure 1