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(54) **REACTANT, HEATING DEVICE, AND HEATING METHOD**

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(57) **ABSTRACT**

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Provided is a reactant, a heat-generating device and a heat-generating method, which can generate heat more stable than conventionally possible. When the reactant (26) that is formed from a hydrogen storage metal and has a plurality of metal nanoparticles (metal nano-protrusion) having the nano-size formed on the surface is structured to be installed in a reactor that becomes a deuterium gas atmosphere, and thereby hydrogen atoms are occluded in the metal nanoparticle of the reactant 26, heat can be generated more stable than conventionally possible.

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