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(54) Title: CATALYTIC PROCESS USING AMMONIA AS HYDROGEN SOURCE FOR CARBON DIOXIDE CONVERSION

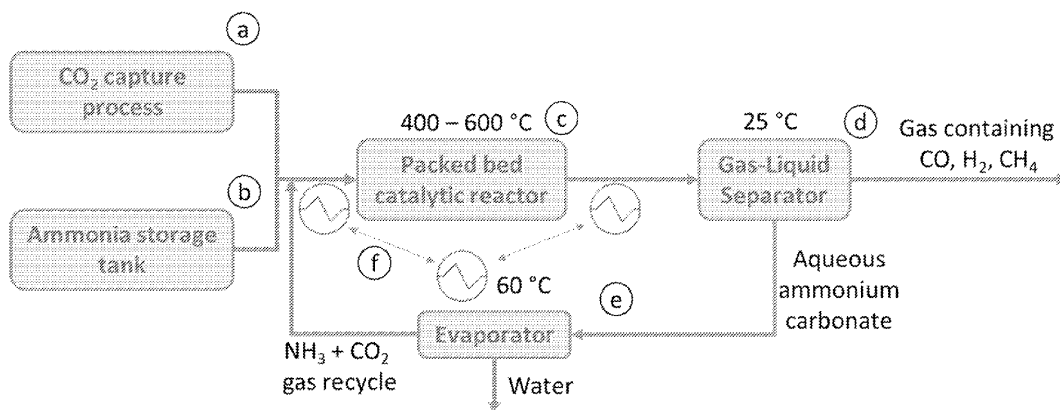


FIGURE 1

(57) Abstract: The invention relates to a process and an apparatus for producing syngas and/or hydrocarbons. The process involves reacting ammonia and carbon dioxide in a single reactor in the presence of a transition metal catalyst to form one or more products comprising carbon monoxide, hydrogen and one or more hydrocarbons. The invention allows green ammonia as a liquefied hydrogen carrier to be used directly in CO₂ conversion.

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